DVP-NS3100ES

SERVICE MANUAL

US Model
Canadian Model

Ver. 1.1 2005.09

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** “DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

Model Name Using Similar Mechanism	NEW
CD/DVD Mechanism Type	CDM66DB-DVBU66
Base Unit Name	DVBU66
Optical Traverse Unit Name	DBU-3

SPECIFICATIONS

System

Laser: Semiconductor laser
λ = 780 nm for CD
λ = 650 nm for Super Audio CD and DVD
Emission duration: continuous
Signal format system: NTSC

Audio characteristics

Frequency response: DVD VIDEO (PCM 96 kHz): 2 Hz to 44 kHz (44 kHz: –2 dB ±1 dB), Super Audio CD: 2 Hz to 100 kHz (40 kHz: –3 dB ±1 dB), CD: 2 Hz to 20 kHz (±0.5 dB)
Signal-to-noise ratio (S/N ratio): 100 dB (AUDIO OUT L/R 1/2 jacks only)
Harmonic distortion: Super Audio CD: 0.0025 %, CD: 0.0028 %,
Dynamic range: DVD VIDEO/Super Audio CD: 103 dB, CD: 99 dB
Wow and flutter: Less than detected value (±0.001% W PEAK)

Outputs

(**Jack name:** Jack type/Output level/Load impedance)
AUDIO OUT L/R 1/2: Phono jack/2 Vrms/10 kilohms
DIGITAL OUT (OPTICAL): Optical output jack/–18 dBm (wave length: 660 nm)
DIGITAL OUT (COAXIAL): Phono jack/0.5 Vp-p/75 ohms
HDMI OUT: TypeA (19 pin)
5.1CH OUTPUT: Phono jack/2 Vrms/10 kilohms
COMPONENT VIDEO OUT(Y, P_B/C_B, P_R/C_R):
Phono jack/Y: 1.0 Vp-p/P_B/C_B, P_R/C_R: interlace[1] = 0.648 Vp-p, progressive or interlace[2] = 0.7 Vp-p/75 ohms
[1] BLACK LEVEL (COMPONENT OUT) is ON
[2] BLACK LEVEL (COMPONENT OUT) is OFF
VIDEO OUT 1/2: Phono jack/1.0 Vp-p/75 ohms
S VIDEO OUT 1/2: 4-pin mini DIN/Y: 1.0 Vp-p/C: 0.286 Vp-p /75 ohms

General

Power requirements:
120 V AC, 60 Hz
Power consumption: 27 W
Dimensions (approx.): 430 × 115 × 375 mm ($17 \times 4^5/_8 \times 14^7/_8$ in.) (width/height/depth) incl. projecting parts
Mass (approx.): 5.5 kg (12 lb 2 oz)
Operating temperature: 5 °C to 35 °C (41 °F to 95 °F)
Operating humidity: 25 % to 80 %

Supplied accessories

- Audio/video cord (pinplug × 3 ⟷ pinplug × 3) (1)
- Remote commander (remote) (1)
- Size AA (R6) batteries (2)

Specifications and design are subject to change without notice.

CD/DVD PLAYER

9-879-841-02
2005I05-1
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Audio Group
Published by Sony Engineering Corporation

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

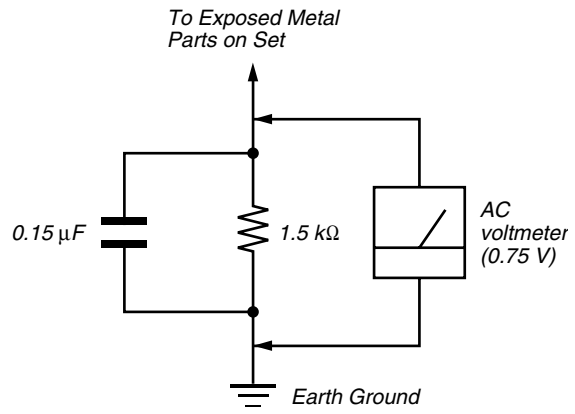


Fig. A. Using an AC voltmeter to check AC leakage.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This Player Can Play the Following Discs

Format of discs	
DVD VIDEO	DVD VIDEO
DVD-RW	DVD RW
Super Audio CD	SUPER AUDIO CD
VIDEO CD	COMPACT disc DIGITAL VIDEO
Music CD	COMPACT disc DIGITAL AUDIO

"DVD VIDEO" and "DVD-RW" are trademarks.

Note about CDs

The player can play CD-ROMs/CD-Rs/CD-RWs recorded in the following formats:
– music CD format
– video CD format
– MP3 audio tracks and JPEG image files of format conforming to ISO 9660* Level 1/ Level 2, or its extended format, Joliet
– KODAK Picture CD format

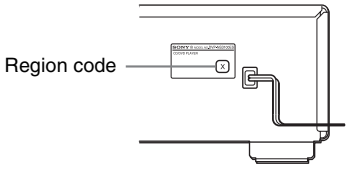
* A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

Region code

Your player has a region code printed on the back of the unit and will only play DVD VIDEOs (playback only) labeled with identical region codes. This system is used to protect copyrights.

DVD VIDEOs labeled ALL will also play on this player.

If you try to play any other DVD VIDEO, the message "Playback prohibited by area limitations." will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be labeled even though playing the DVD VIDEO is prohibited by area restrictions.



Example of discs that the player cannot play

The player cannot play the following discs:
• CD-ROMs/CD-Rs/CD-RWs other than those recorded in the format listed on the previous page.
• Data part of CD-Extras
• DVD-ROMs
• DVD Audios

Also, the player cannot play the following discs:
• A DVD VIDEO with a different region code.
• A disc recorded in a color system other than NTSC, such as PAL or SECAM (this player conforms to the NTSC color system).
• A disc that has a non-standard shape (e.g., card, heart).
• A disc with paper or stickers on it.
• A disc that has the adhesive of cellophane tape or a sticker still left on it.
• DVD-Rs recorded in VR mode (Video Recording format)
• Copy-Once programs recorded on CPRM* compatible DVD-Rs.

* CPRM; Content Protection for Recordable Media is a coding technology that protects copyright for Copy-Once programs.

Notes

• **Notes about DVD+RWs/DVD+Rs, DVD-RWs/DVD-Rs or CD-Rs/CD-RWs**
Some DVD+RWs/DVD+Rs, DVD-RWs/DVD-Rs or CD-Rs/CD-RWs cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software. The disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device. Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA CDs created in Packet Write format cannot be played.
• **Music discs encoded with copyright protection technologies**
This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this player plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VIDEO CDs.

Copyrights

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

TABLE OF CONTENTS

1. SERVICING NOTES 5

2. GENERAL 7

3. DISASSEMBLY
3-1. Disassembly Flow 8
3-2. Case 8
3-3. Front Panel Section 9
3-4. Mechanism Deck (CDM66DB-DVBU66) 9
3-5. Base Unit (DVBU66) 10
3-6. Optical Traverse Unit (DBU-3) 10

4. SERVICE MODE 11

5. TEST MODE 12

6. ELECTRICAL ADJUSTMENTS 20

7. DIAGRAMS
7-1. Block Diagram – Servo Section – 23
7-2. Block Diagram – Audio Section (1/2) – 24
7-3. Block Diagram – Audio Section (2/2) – 25
7-4. Block Diagram – Video Section – 26
7-5. Block Diagram – Panel/Power Supply Section – 27
7-6. Printed Wiring Boards – BU Board – 29
7-7. Schematic Diagram – BU Board – 30
7-8. Printed Wiring Boards – Main Section (1/2) – 31
7-9. Printed Wiring Board – Main Section (2/2) – 32
7-10. Schematic Diagram – Main Section (1/12) – 33
7-11. Schematic Diagram – Main Section (2/12) – 34
7-12. Schematic Diagram – Main Section (3/12) – 35
7-13. Schematic Diagram – Main Section (4/12) – 36
7-14. Schematic Diagram – Main Section (5/12) – 37
7-15. Schematic Diagram – Main Section (6/12) – 38
7-16. Schematic Diagram – Main Section (7/12) – 39
7-17. Schematic Diagram – Main Section (8/12)– 40
7-18. Schematic Diagram – Main Section (9/12) – 41
7-19. Schematic Diagram – Main Section (10/12) – 42
7-20. Schematic Diagram – Main Section (11/12) – 43
7-21. Schematic Diagram – Main Section (12/12) – 44
7-22. Printed Wiring Board
– Audio Board (Component Side) – 45
7-23. Printed Wiring Board
– Audio Board (Conductor Side) – 46
7-24. Schematic Diagram – Audio Board (1/2) – 47
7-25. Schematic Diagram – Audio Board (2/2) – 48
7-26. Printed Wiring Board – Video Board – 49
7-27. Schematic Diagram – Video Board – 50
7-28. Printed Wiring Boards – Panel Section – 51
7-29. Schematic Diagram – Panel Section – 52

8. EXPLODED VIEWS
8-1. Case Section 81
8-2. Front Panel Section 82
8-3. Chassis Section 83
8-4. Mechanism Deck Section (CDM66DB-DVBU66) 84
8-5. Base Unit Section (DVBU66) 85

9. ELECTRICAL PARTS LIST 86

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 ˚C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 ˚C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

RELEASING THE TRAY LOCK

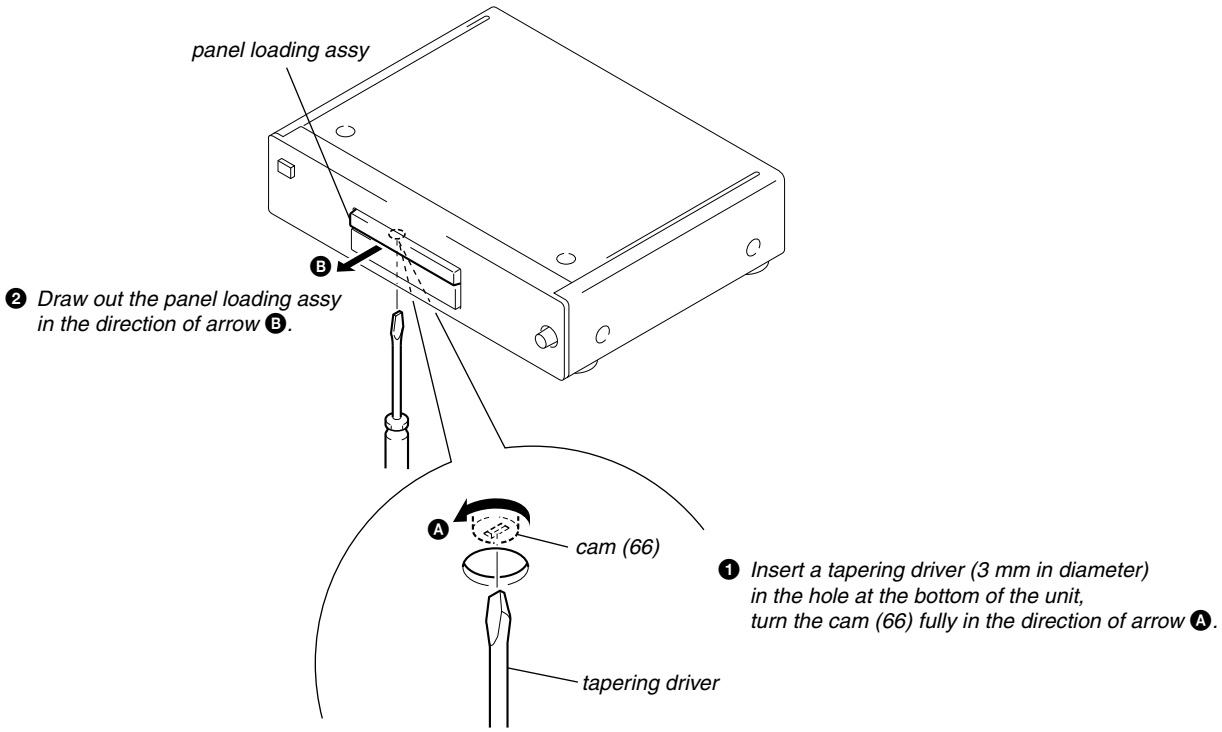
The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure :

1. Press the I/⏻ button to turn the power on.
2. While pressing the ■ button, press the ⏏ button until “TRAY UNLOCKED” displayed on the FL tube (around 5 seconds).

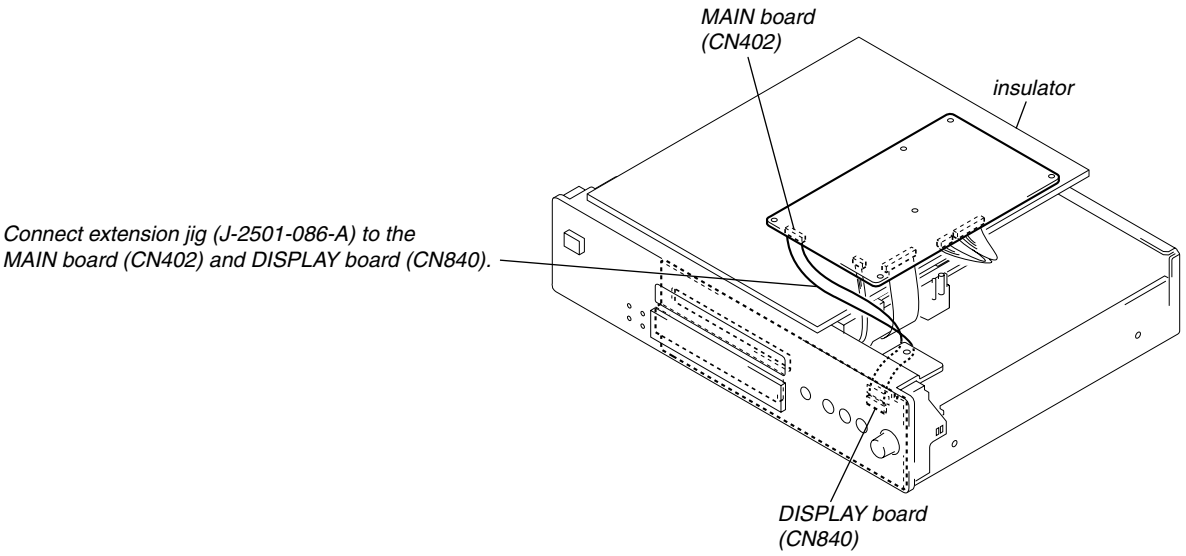
Note: When “ TRAY LOCKED” is displayed, the tray lock is not released by turning power on/off with the I/⏻ button.

HOW TO OPEN THE PANEL LOADING ASSY WHEN POWER SWITCH TURNS OFF


panel loading assy
B
❷ Draw out the panel loading assy in the direction of arrow B.
A
cam (66)
❶ Insert a tapering driver (3 mm in diameter) in the hole at the bottom of the unit, turn the cam (66) fully in the direction of arrow A.
tapering driver

MAIN BOARD SERVICE POSITION

•In checking the MAIN board, prepare extension jig (Part No. J-2501-086-A: 1.00mm pitch, 19 cores, length 300mm).


MAIN board (CN402)
insulator
Connect extension jig (J-2501-086-A) to the MAIN board (CN402) and DISPLAY board (CN840).
DISPLAY board (CN840)

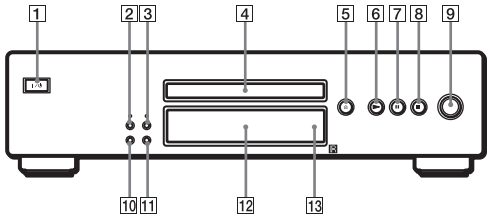
SECTION 2
GENERAL

This section is extracted from instruction manual.

• Location of Controls

Front panel

The brightness of the indicators is linked to the dimmer function. When you select "DARK," "AUTO DARK," or "FL OFF" by pressing DIMMER, the indicators become dark.

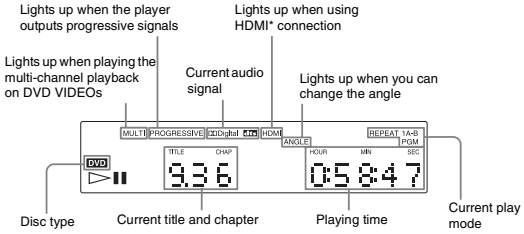


1 I/⏻ (on/standby) button
2 VIDEO OFF button/indicator
3 DIMMER button/indicator
4 Disc tray
5 ⏏ OPEN/CLOSE button
6 ► (play) button
7 ❚❚ (pause) button
8 ■ (stop) button
9 I◄◄/►►I (previous/next) dial
10 MULTI/2CH button
11 SA-CD (Super Audio CD) /CD button

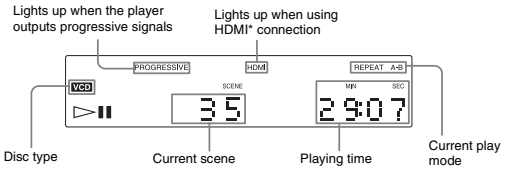
12 Front panel display
13 R (remote sensor)

Front panel display

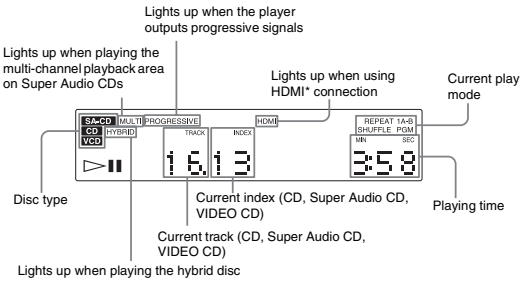
When playing back a DVD VIDEO/DVD-RW


Lights up when the player outputs progressive signals
Lights up when using HDMI* connection
Lights up when playing the multi-channel playback on DVD VIDEOs
Current audio signal
Lights up when you can change the angle
Disc type
Current title and chapter
Playing time
Current play mode

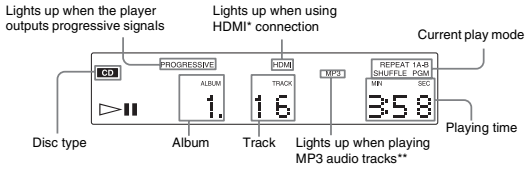
When playing back a VIDEO CD with Playback Control (PBC)



When playing back a CD, Super Audio CD, or VIDEO CD (without PBC)


Lights up when the player outputs progressive signals
Lights up when playing the multi-channel playback area on Super Audio CDs
Lights up when using HDMI* connection
Current play mode
Disc type
Current index (CD, Super Audio CD, VIDEO CD)
Playing time
Current track (CD, Super Audio CD, VIDEO CD)
Lights up when playing the hybrid disc

When playing back a DATA CD (MP3 audio)



* This player is based on version 1.1 of High-Definition Multimedia Interface Specifications.

This DVD player incorporates High-Definition Multimedia Interface (HDMI™) technology.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

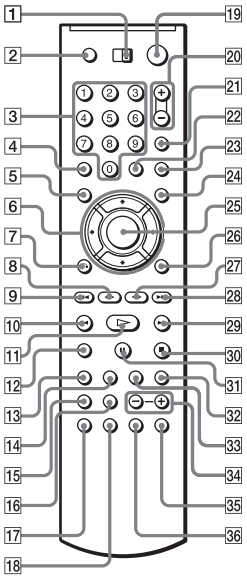
** When playing JPEG image files, "JPEG" appears on the display.

To adjust the lighting of the front panel display (DIMMER function)

Press DIMMER on the player repeatedly to select an item.

- BRIGHT: makes the lighting bright.
- DARK: makes the lighting dark.
- AUTO DARK: makes the front panel display dark if you do not operate the player or remote for a short while.
- FL OFF: turns off the lighting.

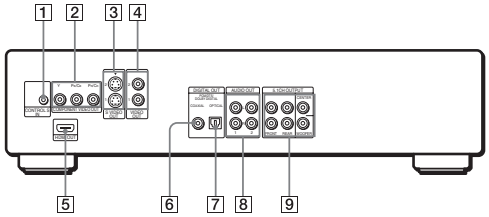
Remote



1 TV/DVD switch
2 ⏏ OPEN/CLOSE button
3 Number buttons
The number 5 button has a tactile dot.*
4 CLEAR button
5 TOP MENU button
6 ←/↑/↓/→ buttons
7 ↶ RETURN button
8 ◄II ←• STEP/REPLAY button
9 I◄◄ PREV (previous) button
10 ◄I ◄◄ SCAN/SLOW button
11 ▻ PLAY button
The ▻ button has a tactile dot.*
12 ZOOM button
13 SA-CD MULTI/2CH (Super Audio CD multi/2 channel) button
14 SA-CD/CD (Super Audio CD/CD) button
15 TIME/TEXT button
16 REPEAT button
17 AUDIO button
18 SUBTITLE button
19 I/⏻ (on/standby) button
20 VOL (volume) +/- buttons
The + button has a tactile dot.*
21 TV/VIDEO button
22 ENTER button
23 WIDE MODE button
24 MENU button
25 ENTER button
26 DISPLAY button
27 •→ II► ADVANCE/STEP button
28 ►►I NEXT (next) button
29 ►► I► SCAN/SLOW button
30 ■ STOP button
31 ❚❚ PAUSE button
32 VIDEO OFF button
33 PICTURE NAVI (picture navigation) button
34 ALBUM +/- buttons
35 VIDEO CONTROL button
36 ANGLE button

* Use the tactile dot as a reference when operating the player.

Rear panel

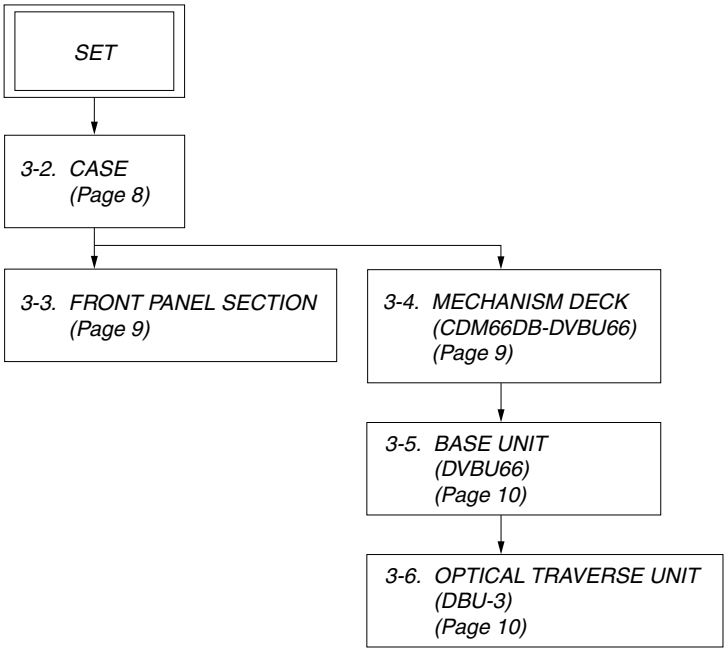


1 CONTROL S IN jack
2 COMPONENT VIDEO OUT (Y, PB/CB, PR/CR) jacks
3 S VIDEO OUT 1/2 jacks
4 VIDEO OUT 1/2 jacks
5 HDMI OUT (high-definition multimedia interface out) jack
6 DIGITAL OUT (COAXIAL) jack
7 DIGITAL OUT (OPTICAL) jack
8 AUDIO OUT L/R 1/2 jacks
9 5.1CH OUTPUT jacks

SECTION 3
DISASSEMBLY

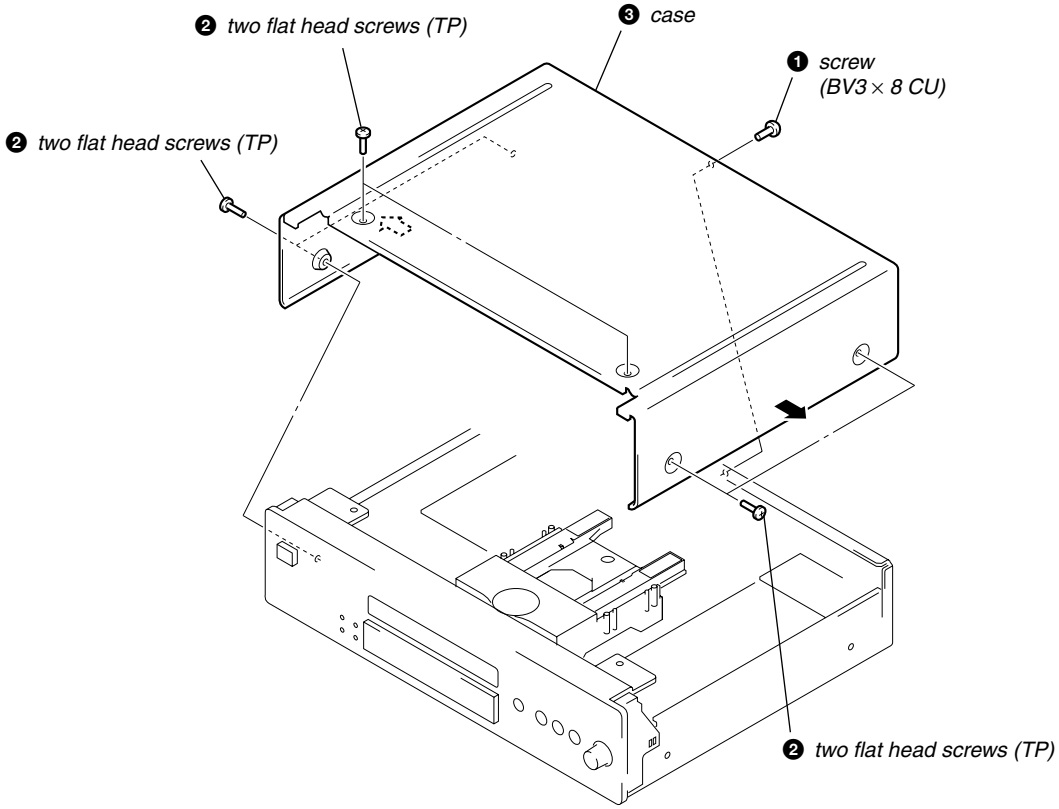
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

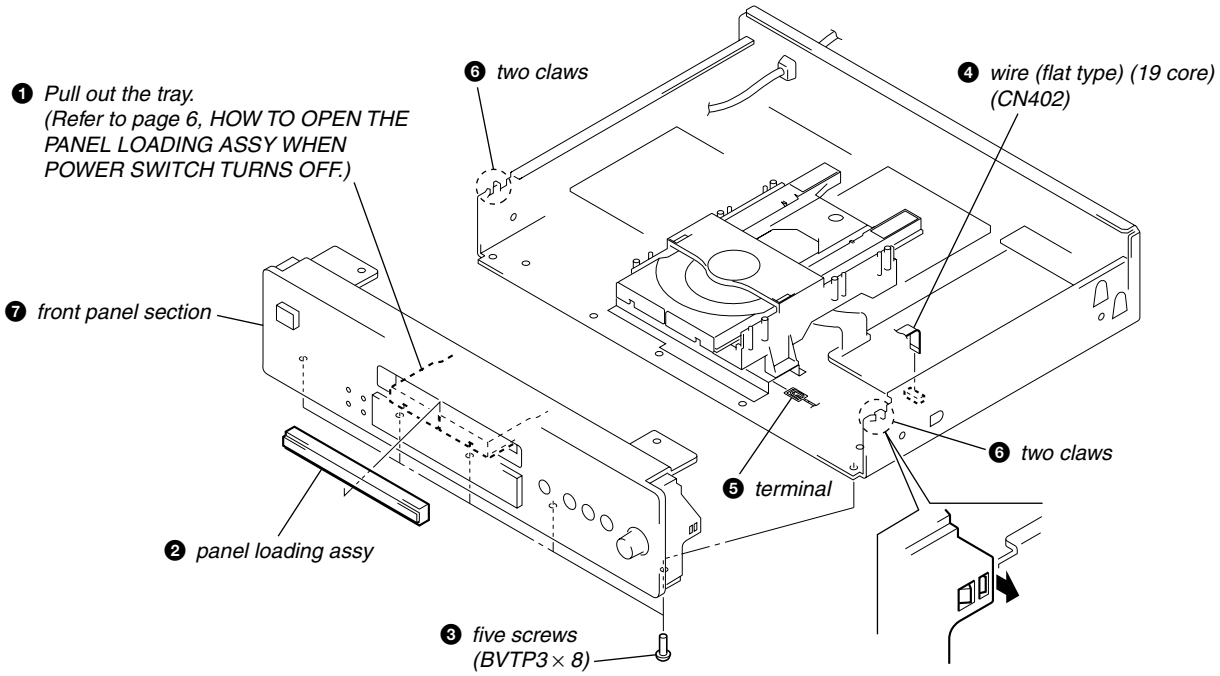


Note: Follow the disassembly procedure in the numerical order given.

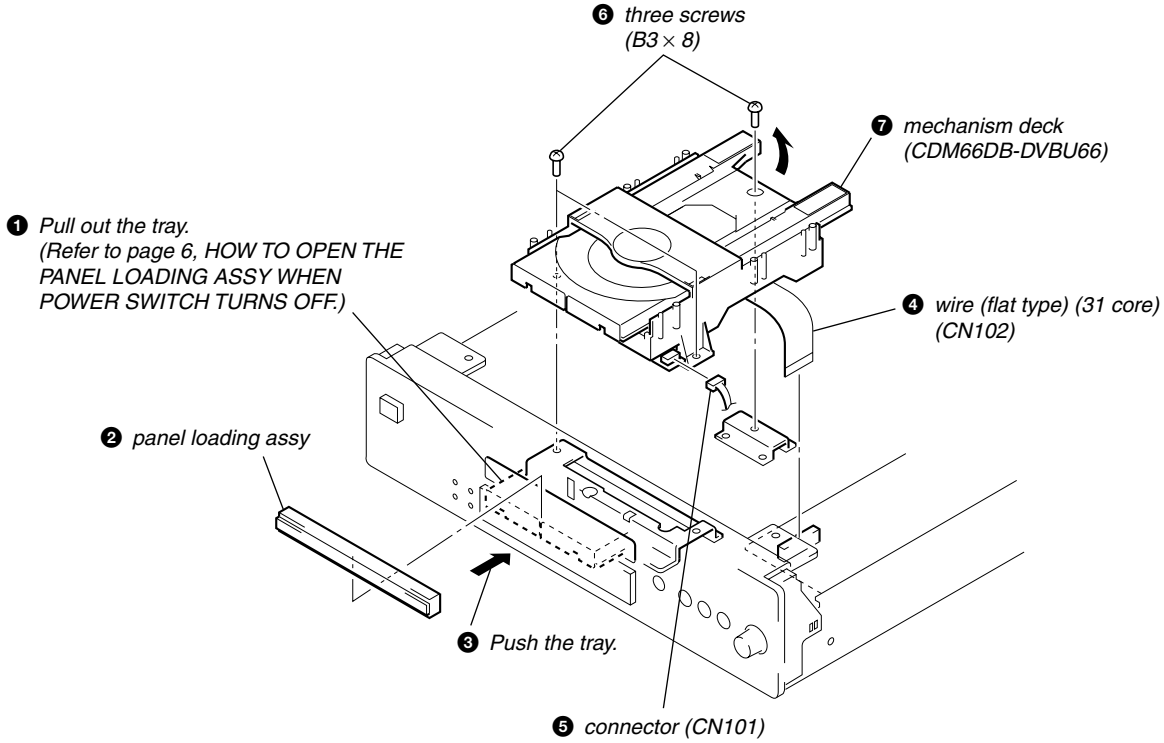
3-2. CASE



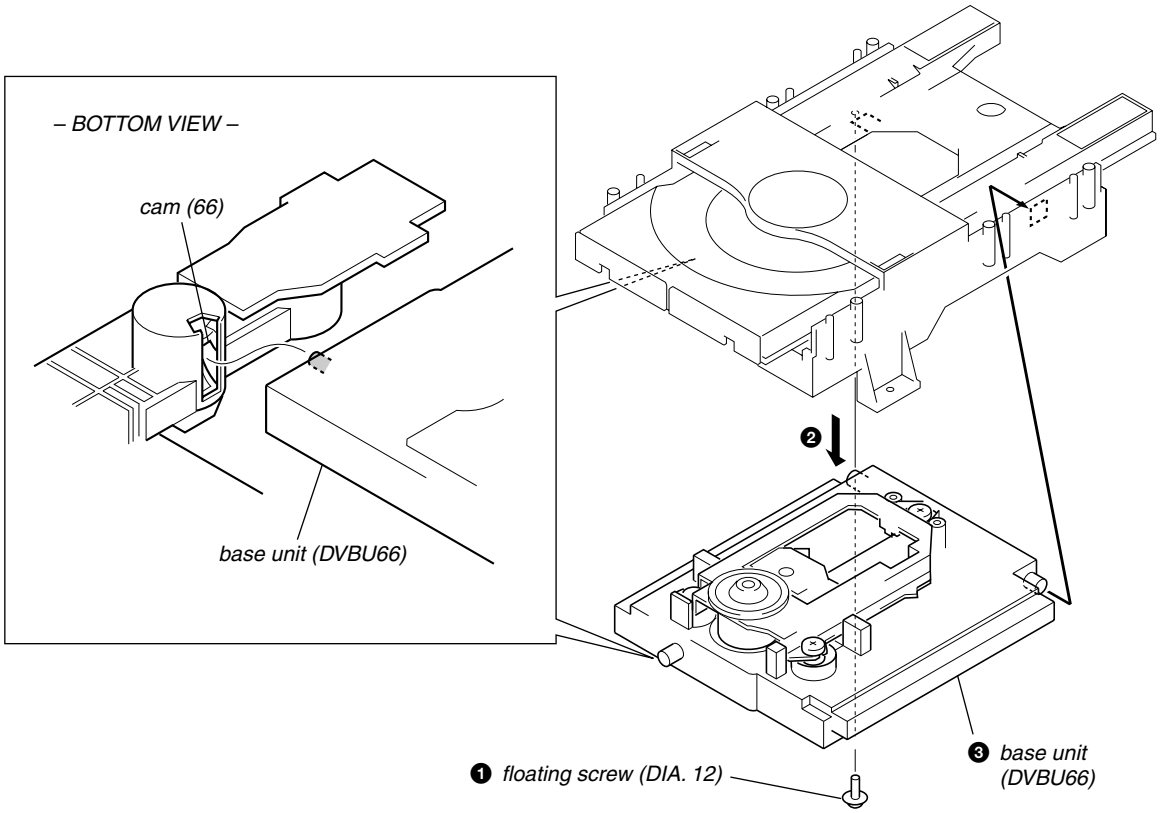
3-3. FRONT PANEL SECTION


❶ Pull out the tray.
(Refer to page 6, HOW TO OPEN THE PANEL LOADING ASSY WHEN POWER SWITCH TURNS OFF.)
❻ two claws
❹ wire (flat type) (19 core) (CN402)
❼ front panel section
❻ two claws
❺ terminal
❷ panel loading assy
❸ five screws (BVTP3 × 8)

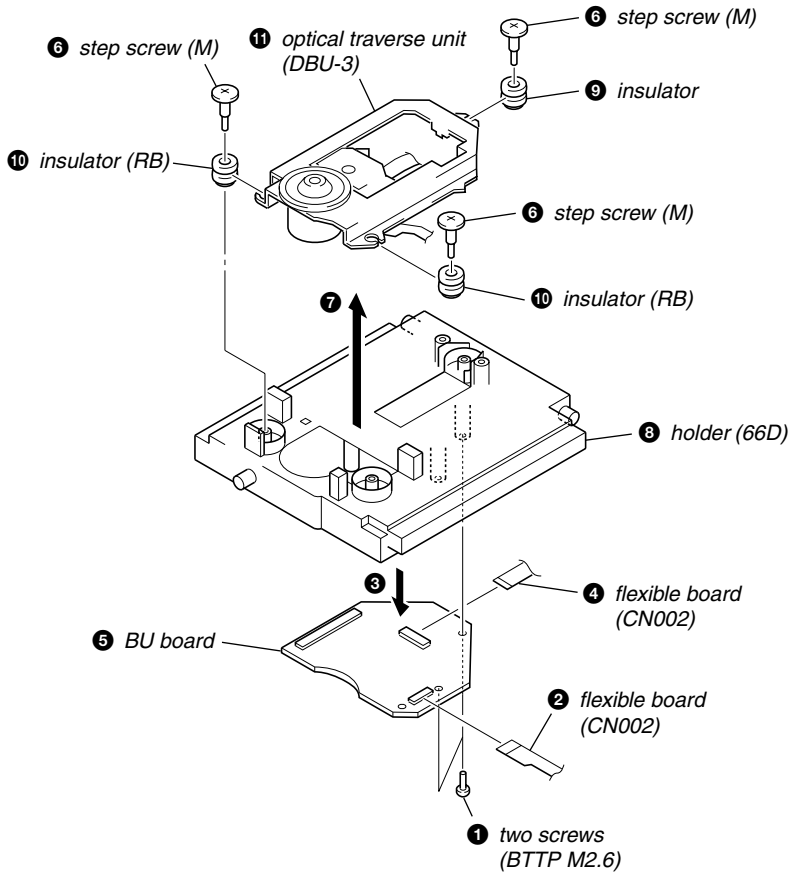
3-4. MECHANISM DECK (CDM66DB-DVBU66)


❻ three screws (B3 × 8)
❼ mechanism deck (CDM66DB-DVBU66)
❶ Pull out the tray.
(Refer to page 6, HOW TO OPEN THE PANEL LOADING ASSY WHEN POWER SWITCH TURNS OFF.)
❹ wire (flat type) (31 core) (CN102)
❷ panel loading assy
❸ Push the tray.
❺ connector (CN101)

3-5. BASE UNIT (DVBU66)



3-6. OPTICAL TRAVERSE UNIT (DBU-3)



SECTION 4
SERVICE MODE

TRAY LOCK

This mode let you lock the disc tray. When this mode is activated, the disc will not eject when ⏏ button is pressed. The message "TRAY LOCKED" will be displayed in on the FL tube.

Procedure:

1. Press the I/⏻ button to turn the power on.
2. While pressing the ■ button, press the ⏏ button until "TRAY LOCKED"or"TRAY UNLOCKED"displayed on the FL tube (around 5 seconds).

CHILD LOCK

This player can lock the disc tray to prevent children from opening it.

Procedure:

1. In the standby mode, press the RETURN , ENTER , I/⏻ buttons on the remote in this order.
2. It turns on and "LOCKED" appears on the FL rube.
3. The OPEN/CLOSE button on the player and the remote do not work thile this lock is set.
4. To release this lock, when the player is in standby mode,operate the remote in the same manner as step 1 again.
   It turns jon ande "UNLOCK"appears on the FL tube.

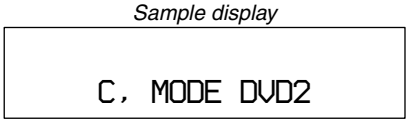
COMMAND MODE SETTING

If the supplied remote interferes with your other Sony DVD player, change the command mode setting for this player and the supplied remote to one that differs from the other Sony DVD player.
The default command mode setting for this player and the supplied remote is DVD 1.

Procedure:

1. slide the COMMAND MODE switch in the battery case of the remote to select the command mode(DVD 1, DVD 2, or DVD 3) so that the setting for the remote differs from that of the other DVD players.
   For example, it the other DVD players respond to the default command mode setting for the supplied remote(DVD 1), set the remote to DVD 2 or DVD 3.
2. In the standby mode, hold down MULTI/2CH button and press I/⏻ button on the player. The command mode appears or the FL tube as follows.

Sample display



3. Repeat steps 2 and 3 until the displayed command mode matches that of the supplied remote.

SHIP MODE

If this mode is dxecuted, each setting data is initialized.

Procedure:

1. In the standby mode, while pressing the ❚❚ and SA-CD/CD buttons,press the ► button.
2. When enter the Ship Mode, it displays "SETUP INIT" on the FL tube and start the data initializing.
3. When the initializing is complete, it displays "FINISHED" on the FL tube, Then press the I/⏻ button and back to standby mode.

SECTION 5
TEST MODE

DVD SECTION

GENERAL DESCRIPTION

The Test Mode allows you to make diagnosis and adjustment easily using the remote commander and monitor TV. The instructions, diagnostic results, etc. are given on the on-screen display (OSD).

STARTING TEST MODE

Press the [TOP MENU], [CLEAR], [I/⏻] keys on the remote commander in this order with standby status, and the Test Mode starts, then "DIAG START" will be displayed on the fluorescent display tube and the menu shown below will be displayed on the TV screen. At the bottom of menu screen, the model name and revision number are displayed. Last Off at the lower right of screen indicates the information code concerning the last power off. To execute each function, select the desired menu and press its number on the remote commander. To exit from the Test Mode, press the [I/⏻] key.

```
          Test Mode Menu

0. B/E Diagnosis
1. Drive Auto Adjustment
2. Drive Manual Operation
3. Mecha Aging
4. Emergency History
5. Version Information
6. Video Level Adjustment
                  Exit: Power Key

Model    :DVP-NS3100ES
Revision:xxx xxx
```

OPERATING THE SUB MENU

0. B/E Diagnosis

The same contents as board detail check by serial interface can be checked from the remote commander. On the Test Mode Menu screen, press [0] key on the remote commander, and the following check menu will be displayed.

```
    ### BackEnd Diagnosis ###
Check Menu
0 . Quit
1 . All
2 . Version
3 . Peripheral
4 . Servo
5 . Video
6 . Audio


Model    :DVP-NS3100ES
Revision:xxx xxx
```

0-0. Quit

Quit the Syscon Diagnosis and return to the Test Mode Menu.

0-1. All (All items continuous check)

This menu checks all diagnostic items continuously. Normally, all items are checked successively one after another automatically unless an error is found, but at a certain item that requires judgment through a visual check to the result, the following screen is displayed for the key entry.

- **Example display**

```
    ### BackEnd Diagnosis ###

2. Version

2-0. Quit
2-1. ALL
2-2. Revision:x.xxx


2-4. Model    :SINGLE QS(X)
2-5. Region:x
Press NEXT Key to Continue
```

Following the message, press [▶▶I] key to go to the next item.

To quit the diagnosis and return to the Check Menu screen, press [■] or [ENTER] key. If an error occurred, the diagnosis is suspended.
Press [I◀◀] key to repeat the same item where an error occurred, or [▶▶I] key to continue the check from the item next to faulty item.

0-2. Version

(2-2) Revision
ROM revision number is displayed.
Error: Not detected.
The revision number defined in the source file is displayed with four digits.

(2-4) Model Type
Model code is displayed.
Error: Not detected.
The model code read from the Inter Face μ-con is displayed.

(2-5) Region
Region code is displayed.
Error: Not detected.
The region code determined from the model code is displayed.

0-3. Peripheral

(3-2) Flash Rom
Data delete ⟶ write ⟶ read, and accord check
Error 32: Delete error
Error 33: Write error
Error 34: Read data discord
Error may occur due to defect of access with the CPU (MAIN board IC256).

(3-3) SA-CD Check
Data write ⟶ read, and accord check
Error 36: Write/read data discord
Check for SA-CD circuit (MAIN board IC502 and around circuit).

(3-4) Venc Check
Register write ⟶ read, and accord check
Error 37: Write/read data discord
Error may occur due to defect of access with the CPU (MAIN board IC256).

(3-6) LIP sync RAM Check
Data write ⟶ read, and accord check
Error 38: Write/read data discord
External RAM check for I/P sync (MAIN board IC552)

(3-7) PROV Check
Data write ⟶ read, and accord check
Error 39: Write/read data discord
External RAM check for I/P converter (MAIN board IC603) too.

(3-8) HDMI Check
Register write ⟶ read, and accord check
Error 43: Write/read data discord
Error may occur due to defect of access with the HDMI transmitter (MAIN board IC607).

0-4. Servo

(4-2) Servo (F/E) Check
Data write ⟶ read, and accord check
Error 41: Read data discord
0x9249, 0x2942 and 0x4294 are written to the RAM address 0x602 of the DVD interface (front-end) (MAIN board IC105) and then read for checking.

0-5. Video

(5-2) Interlace
Error: Not detected.
The command is transferred to the video encoder (MAIN board IC606), and change the video signal to interlace.

(5-3) Progressive
AVD color bar command write ⟶ Video (Composite, Y/C) OUT
Error: Not detected.
The command is transferred to the video encoder (MAIN board IC606), and change the video signal to progressive.

(5-4) Color Bar
Error: Not detected.
The command is transferred to the video encoder (MAIN board IC606), and the color bar signals are output from video terminals.

0-6. Audio

Not used.

1. Drive Auto Adjustment

DVD reference disc:

Single Layer
- TDV-520CS0 (J-2501-236-A) (NTSC)
- HLX-503 (J-6090-069-A) (NTSC)
- HLX-504 (J-6090-088-A) (NTSC)

Dual Layer
- TDV-540C (J-2501-235-A) (NTSC, Opposite)
- HLX-501 (J-6090-071-A) (NTSC)
- HLX-505 (J-6090-089-A) (NTSC)

CD reference disc:

LUV-P01 (4-999-032-01)
YEDS-18 (3-702-101-01)
PATD-012 (4-225-203-01)

On the Test Mode Menu screen, press [1] key on the remote commander, and the drive auto adjustment menu will be displayed.

```
   ## Drive Auto Adjustment ##

         Adjustment Menu

0. ALL (DL:Parallel)
1. DVD-SL
2. CD
3. DVD-DL (Parallel)

4. ALL (DL:Opposite)
5. DVD-DL (Opposite)
9. CLEAR DATA
                        Exit: RETURN
```

Normally, [0] or [4] is selected to adjust DVD (single layer), CD, and DVD (dual layer) in this order. But, individual items can be adjusted for the case where adjustment is suspended due to an error. In this mode, the adjustment can be made easily through the operation following the message displayed on the screen. Which disc is currently adjusted is displayed on the fluorescent display tube.

1-0. ALL (DL: Parallel)

Select [0] and press the [ENTER] key. Then, [1] DVD-SL disc, [2] CD disc, and [3] DVD-DL (Parallel) disc are adjusted in this order. Each time one disc was adjusted, it is ejected, and therefore exchange the disc following the message. You can exit the adjustment by pressing the [■] button. In adjusting each disc, the mirror time is measured to check the disc type. In the auto adjustment, whether the disc type is correct is not checked unlike conventional models, and accordingly, take care not to insert a different type of disc.

Set Disc
1: DVD-SL (TDV-520CS0 or HLX-503 or HLX-504)
2: CD (LUV-P01 or YEDS-18 or PATD-012)
3: DVD-DL (HLX-501 or HLX-505)

1-1. DVD Single Layer Disc

Select [1], insert DVD single layer disc, and press [ENTER] key, and the adjustment will be made through the following steps, then adjusted values will be written to the flash memory. If there is no disc on the disc tray, the tray will be open to wait for closing. If there is a disc on the disc tray, the adjustment starts immediately. If you put a disc prior to adjustment, confirm that the SL disc is set on the disc tray.

DVD Single Layer Disc Adjustment Steps

1. Sled Reset
2. Set Disc Type SL
3. Laser Diode (DVD) ON
4. Focus Error Check
5. Focus ON
6. Spindle Start
7. Tracking Error Level Adjust
8. Tracking Error Offset Adjust
9. Tracking ON
10. RF Level Adjustment
11. Spindle Calibration
12. Tracking Off
13. Tracking Error Level Adjust 2nd
14. Tracking Error Offset Adjust 2nd
15. Tracking ON
16. Auto Focus Gain Adjust L0
17. Auto Tracking Gain Adjust L0
18. Sled ON
19. CLV ON
20. Auto Focus Balance Adjust L0
21. Auto RFEQ Boost Adjust L0
22. Jitter measure
23. Search Check
24. All Servo Off

1-2. CD Disc

Select [2], insert CD disc, and press [ENTER] key, and the adjustment will be made through the following steps, then adjusted values will be written to the flash memory. If there is no disc on the disc tray, the tray will be open to wait for closing. If there is a disc on the disc tray, the adjustment starts immediately. If you put a disc prior to adjustment, confirm that the CD is set on the disc tray.

CD Adjustment Steps

1. Sled Reset
2. Set Disc Type CD
3. Laser Diode (CD) ON
4. Focus Error Check
5. Focus ON
6. Spindle Start
7. Tracking Error Level Adjust
8. Tracking Error Offset Adjust
9. Tracking ON
10. RF Level Adjustment
11. Spindle Calibration
12. Auto Focus Gain Adjust
13. Auto Tracking Gain Adjust
14. Sled ON
15. CLV ON
16. Auto Focus Balance Adjust
17. Auto RFEQ Boost Adjust
18. Jitter measure
19. Search Check
20. All Servo Off

1-3. DVD Dual Layer Disc (Parallel)

Select [3], insert DVD dual layer disc, and press [ENTER] key, and the adjustment will be made through the following steps, then adjusted values will be written to the flash memory. If there is no disc on the disc tray, the tray will be open to wait for closing. If there is a disc on the disc tray, the adjustment starts immediately. If you put a disc prior to adjustment, confirm that the DL disc is set on the disc tray.

DVD Dual Layer Disc Adjustment Steps

1. Sled Reset
2. Set Disc Type DL
3. Laser Diode (DVD) ON
4. Focus Error Check
5. Focus ON
6. Spindle Start
7. Tracking Error Level Adjust
8. Tracking Error Offset Adjust
9. Tracking ON
10. RF Level Adjustment
11. Spindle Calibration
12. Tracking Off
13. Tracking Error Level Adjust 2nd
14. Tracking Error Offset Adjust 2nd
15. Tracking ON
16. Auto Focus Gain Adjust L0
17. Auto Tacking Gain Adjust L0
18. Sled ON
19. CLV ON
20. Auto Focus Balance Adjust L0
21. Auto RFEQ Boost Adjust L0
22. Jitter measure
23. Search Check
24. Focus Jump (L0 → L1)
25. Tracking Off
26. Tracking Error Level Adjust
27. Tracking Error Offset Adjust
28. Tracking ON
29. Auto Focus Gain Adjust L1
30. Auto Tracking Gain Adjust L1
31. Sled ON
32. CLV ON
33. Auto Focus Balance Adjust L1
34. Auto RFEQ Boost Adjust L1
35. Search Check
36. All Servo Off

1-4. ALL (DL: Opposite)

Select [4] and press the [ENTER] key. Then, [1] DVD-SL disc, [2] CD disc, and [5] DVD-DL (Opposite) disc are adjusted in this order. Each time one disc was adjusted, it is ejected, and therefore exchange the disc following the message. You can exit the adjustment by pressing the [■] button. In adjusting each disc, the mirror time is measured to check the disc type. In the auto adjustment, whether the disc type is correct is not checked unlike conventional models, and accordingly, take care not to insert a different type of disc.

Set Disc
1: DVD-SL (TDV-520CS0 or HLX-503 or HLX-504)
2: CD (LUV-P01 or YEDS-18 or PATD-012)
3: DVD-DL (TDV-540C only)

1-5. DVD Dual Layer Disc (Opposite)

Note: Make sure, using the TDV-540C in this adjustment.

Select [5], insert DVD dual layer disc (TDV-540C), and press [ENTER] key, and the adjustment will be made through the following steps, then adjusted values will be written to the flash memory. If there is no disc on the disc tray, the tray will be open to wait for closing. If there is a disc on the disc tray, the adjustment starts immediately. If you put a disc prior to adjustment, confirm that the DL disc is set on the disc tray.

DVD Dual Layer Disc Adjustment Steps

1. Sled Reset
2. Set Disc Type DL
3. Laser Diode (DVD) ON
4. Focus Error Check
5. Focus ON
6. Spindle Start
7. Tracking Error Level Adjust
8. Tracking Error Offset Adjust
9. Tracking ON
10. RF Level Adjustment
11. Spindle Calibration
12. Tracking Off
13. Tracking Error Level Adjust 2nd
14. Tracking Error Offset Adjust 2nd
15. Tracking ON
16. Auto Focus Gain Adjust L0
17. Auto Tacking Gain Adjust L0
18. Sled ON
19. CLV ON
20. Auto Focus Balance Adjust L0
21. Auto RFEQ Boost Adjust L0
22. Jitter measure
23. Search Check
24. Focus Jump (L0 → L1)
25. Tracking Off
26. Tracking Error Level Adjust
27. Tracking Error Offset Adjust
28. Tracking ON
29. Auto Focus Gain Adjust L1
30. Auto Tracking Gain Adjust L1
31. Sled ON
32. CLV ON
33. Auto Focus Balance Adjust L1
34. Auto RFEQ Boost Adjust L1
35. Search Check
36. All Servo Off

2. Drive Manual Operation

On the Test Mode Menu screen, select [2], and the manual operation menu will be displayed. For the manual operation, each servo on/off control and adjustment can be executed manually.

```
  ## Drive Manual Operation ##


2. Operation Commands
3. Servo Control
4. Track/Layer Jump

6. Memory Check
7. Changer Manual Move
8. Changer Mecha Check
                    Exit: RETURN
Model   :DVP-NS3100ES
Revision:xxx xxx
```

Basic operation (controllable from front panel or remote commander)

[I/⏻] : Power OFF
[■] : Servo stop
[⏏] : Stop+Eject/Loading
[↩] (RETURN) : Return to Operation Menu or Test Mode Menu
[▶▶|] , [|◀◀] : Transition between sub modes of menu
[1] to [9], [0] : Selection of menu and items
Cursor [↑]/[↓] : Increase/Decrease in manually adjusted value

2-2. Operation Commands

```
 ### Drive Manual Operation ###
2. Operation Commands

 1. Search Disc (DVD Priority)
 2. Search Disc (CD Priority)
 3. PLAY
 4. Pause
 5. Stop




                    Exit: RETURN
```

[1] Serch Disc (DVD Priority) : DVD SDISC (F/E command) is performed by priority.
[2] Serch Disc (CD Priority) : CD SDISC (F/E command) is performed by priority.
[3] PLAY : Playback the current disc (DVD/CD). Start address is DVD = 0x030000 or CD = 00:02:00.
[4] Pause : Pause
[5] Stop : Stop

Note: After Search Disc, hold on in 10 seconds.

2-3. Servo Control

```
 ### Drive Manual Operation ###
3. Servo Control
 1. LD DVD       Off/On
 2. LD CD        Off/On
 3. Focus        Off/On
 4. Spindle      Off/On
 5. Track        Off/On
 6. Sled         Off/On

 8. Focus Ramp


                      Exit: RETURN
```

On this screen, the servo on/off control necessary for replay is executed. Normally, turn on each servo from 1 sequentially and when CLVA is turned on, the usual trace mode becomes active. In the trace mode, DVD sector address or CD time code is displayed. This is not displayed where the spindle is not locked.
The spindle could run overriding the control if the spindle system is faulty or RF is not present. In such a case, do not operate CLVA.

[1] LD DVD : Turn on/off the laser for DVD.
[2] LD CD : Turn on/off the laser for CD.
[3] Focus : Turn on/off the focus servo.
[4] Spindle : Turn on/off the spindle servo.
[5] Track : Turn on/off the tracking servo.
[6] Sled : Turn on/off the sled servo.
[8] Focus Ramp : In the laser diode on and focus servo off status, repeat the focus up/down.

2-4. Track/Layer Jump

```
4. Track/Layer Jump
 1. 1Tj          FWD
 2. 1Tj          REV
 3. 200Tj        FWD
 4. 200Tj        REV
 5. 2kTj         FWD
 6. 2kTj         REV
 9. Lj (L1->L0)
 0. Lj (L0->L1)


                      Exit: RETURN
```

On this screen, track jump, etc. can be performed. Only for the DVD-DL, the focus jump and layer jump are displayed in the right field.

[1] 1Tj FWD : 1-track jump forward.
[2] 1Tj REV : 1-track jump reverse.
[3] 200Tj FWD : 200-track jump forward.
[4] 200Tj REV : 200-track jump reverse.
[5] 2kTj FWD : 2k-track jump forward.
[6] 2kTj REV : 2k-track jump reverse.
[9] Lj (L1->L0) : Layer jump.
[0] Lj (L0->L1) : Layer jump.

2-6. Memory Check

The display image is shown below and three screens in total can be selected.

```
6. Memory Check Flash Data 1
              CD   SL   L0   L1
 An.Off A     xx   xx   xx   xx
 An.Off B     xx   xx   xx   xx
 An.Off C     xx   xx   xx   xx
 An.Off D     xx   xx   xx   xx
 An.Off E     xx   xx   xx   xx
 An.Off F     xx   xx   xx   xx
 An.G.Main    xx   xx   xx   xx
 An.G.Side    xx   xx   xx   xx
 RF level     xx   xx   xx   xx
 FE S level   xx   xx   xx   xx
Down:NextPage         Exit:RETURN
```

```
6. Memory Check Flash Data 2
              CD   SL   L0   L1
 TE Level     xx   xx   xx   xx
 TE Offset    xx   xx   xx   xx
 FCS Gain     xx   xx   xx   xx
 TRK Gain     xx   xx   xx   xx
 FCS Bal.1    xx   xx   xx   xx
 FCS Bal.2    xx   xx   xx   xx
 RFEQ 1       xx   xx   xx   xx
 RFEQ 2       xx   xx   xx   xx
 VTS2         xx   xx   xx   xx
 Jitter       xx   xx   xx   xx
Up/Dn:Prev/NextPage  Exit:RETURN
```

```
6. Memory Check Flash Data 3
              CD   SL   L0   L1
 VTS1         xx   xx   xx   xx









Up:PrevPage           Exit:RETURN
```

2-7. Changer Manual Move

On this test mode screen, selecting [7] enables the machine operation such as disc loading. The following screen appears.

Display when [7] is selected in the Drive Manual Operation

```
    ## Changer Manual Move ##
ENTER  : Mecha Initial
PLAY   : Loading In
STOP   : Loading Out
OP/CL  : Door Open/Close
UP     : Poper Up
DOWN   : Poper Down
jogFOR : Table R StepTurn
jogPRV : Table L StepTurn
DISP   : Sensor Status


RETURN : Exit
```

[ENTER] : Performs initialization of mechanism deck.
Mecha Initial — Because the mechanical initialization is performed when the machine enters the Drive Manual Operation mode, use this item when an error such as adjustment error occurs.

[PLAY] : Not used in this set.
Loading In

[STOP] : Not used in this set.
Loading Out

[OP/CL] : Opens and closes the door.
Door Open/Close
([⏏] key)

[UP] : Not used in this set.
Poper Up

[DOWN] : Not used in this set.
Poper Down

[jog FOR] : Not used in this set.
Table R step Turn

[jog PRV] : Not used in this set.
Table L step Turn

[DISP] : Not used in this set.
Sensor Status

2-8. Changer Mecha Check

Not used in this set.

3. Mecha Aging

The mechanism aging is not supported.

4. Emergency History

```
      ### EMG. History ###

Laser Hours
            CD          xxh xxm
            DVD         xxh xxm

01.00 00 00 00    00 00 00 00
   00 00 00 00    00 00 00 00
02.00 00 00 00    00 00 00 00
   00 00 00 00    00 00 00 00

Select : 1-9   Scroll : UP/DOWN
(1: Last EMG.)   Exit : RETURN
```

On the Test Mode Menu screen, selecting [4] displays the information such as servo emergency history. The history information from last "1" up to "10" can be scrolled with [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with the ten-key pad from [1] to [9].
The upper two lines display the laser ON total hours. Data below minutes are omitted.

Clearing History Information

◎ Clearing laser hours
Press [TOP MENU] and [CLEAR] keys in this order.
Both CD and DVD data are cleared.

◎ Clearing emergency history
Press [DISPLAY] and [CLEAR] keys in this order.

◎ Initializing setup data
Press [MENU] and [CLEAR] keys in this order.
The data have been initialized when "Set Up Initialized" message is displayed.
The EMG. History display screen will be restored soon.

5. Version Information

```
   ### Version Information ###

IF con     Ver:x.xxx(xxxx)

B/E        Ver:xxx xxx

F/E        Ver:xx


        Model    :DVP-NS3100ES(X)
        Region   :xxx(x)

Exit : RETURN
```

IF con : IC404 on the MAIN board
B/E : IC256 on the MAIN board
F/E : IC105 on the MAIN board

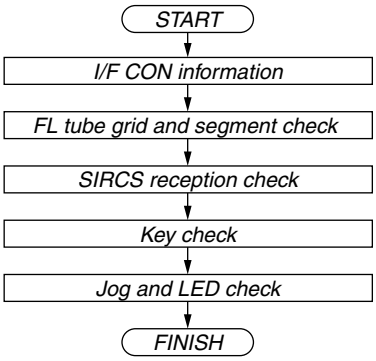
6. Video Level Adjustment

On the Test Mode Menu screen, selecting [6] displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing the [RETURN] key.

DISPLAY SECTION

DISPLAY TEST MODE

Execute the Self Check Mode along the following flow.



1. Entering the Display Test Mode

The Display Test mode starts if either of the following conditions is satisfied.

Condition 1:
With the SELF_CHECK (pin ⑨⑦) of the IF CON (IC404) on the MAIN board kept "low", turn the power on.

Condition 2:
While pressing the ■ key on the set when the set is in standby state, press the RETURN → DISPLAY key on the remote commander and the mode transits to the Self Check mode.

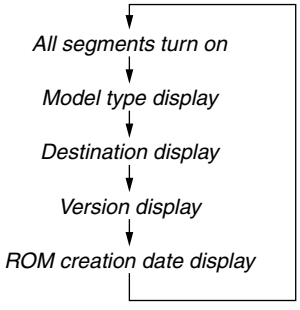
When the Self Check mode started, "TEST START" is displayed on the FL tube for 2 seconds and then the Self Check proceeds to the IF CON information display.

2. Releasing the Display Test Mode

To release the Self Check mode, disconnect the AC plug.

3. IF CON Information Display

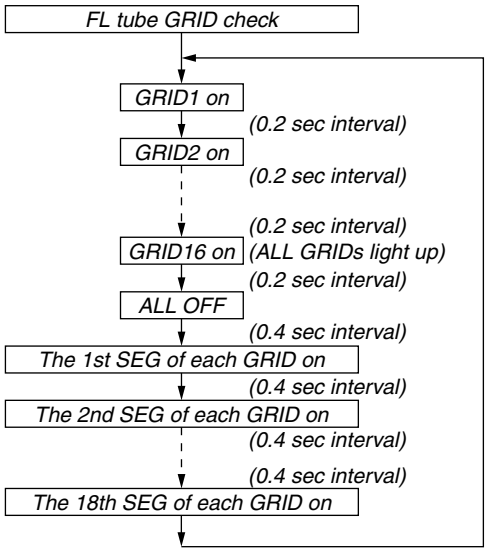
When enter this mode, it displays as follows.



If the ■ button is pressed, the test proceeds to the following FL tube GRID and SEGMENT check.

4. FL Tube Grid and Segment Check

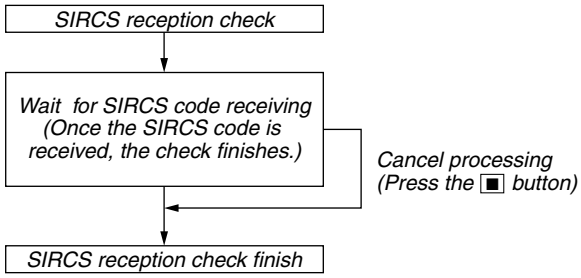
First, a grid lights up one after another, and when grid 16 lights up, all grids light up.
Next, all grids go off, and segments are displayed while changing the patterns.
A way of this display is repeated.
(The interval of grid lighting is 0.2 second, and that of segment lighting is 0.4 second.)



If the ■ button is pressed, the test proceeds to the following SIRCS reception check.

5. SIRCS Reception Check

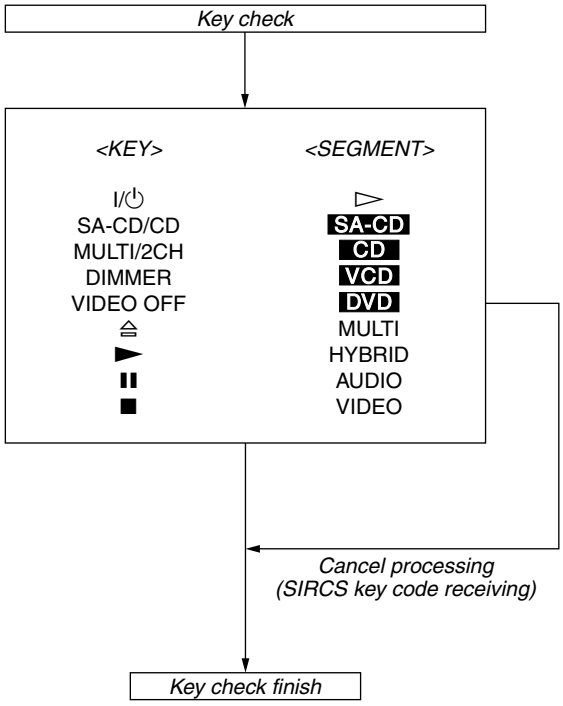
Upon start of the SIRCS reception check, "SIRCS CHECK" is displayed on the FL tube.
Once the SIRCS key code is received, the test proceeds to the following Key check.



If the ■ button is pressed as a cancel processing of the SIRCS reception check, the test proceeds to the following Key check.

6. Key Check

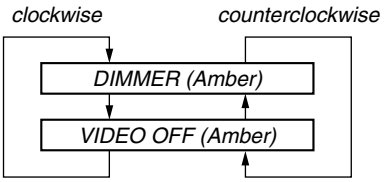
After the SIRCS reception check finished, the Key check is executed.
Upon start of the Key check, "KEY CHECK" is displayed on the FL tube.
9 keys are checked as described below.
Each time a key is pressed, the specified segment lights up, and at one second after all keys were pressed, all of FL tube go off and the Key check finishes.



If the SIRCS key code is received as a cancel processing of the Key check, the test proceeds to the following Jog and LED check.

7. Jog and LED Check

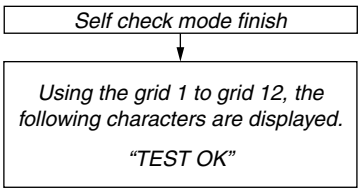
After the Key check finished, the Jog and LED check is executed as follows.
Upon start of the Jog and LED check, "JOG AND LED" is displayed on the FL tube.
There are six LEDs. The order in which the LEDs light up when the I◄◄ ►►I knob is turned as described below.



If the ■ button is pressed during the Jog and LED check, the Jog and LED check finishes and it displays result of the Display Test mode. (See next item)

8. Display Test Mode Result Indication

After the Jog and LED check finished, it displays result of Display Test mode.
At this time, even if a signal from a key on the set or remote commander is received, nothing changes.



At the SIRCS reception check, Key check, Jog and LED check, if you proceed to the next check without completing current check, the check name that has not completed yet is displayed instead of "TEST OK", as follows.

If SIRCS reception check has not completed (If JOG dial is pressed during SIRCS reception check)	"SIRCS NG"
If KEY check has not completed (If SIRCS key code is received during KEY check)	"KEY NG"
If JOG and LED check has not completed (If JOG dial is pressed without rotating JOG dial even once during JOG and LED check)	"JOG LED NG"

Also, if two or more checks have not completed yet

All three checks are erroneous	"SI KY JO NG"
Two checks are erroneous	"SI JO NG" "SI KY NG" " KY JO NG"

Each error is displayed at the fixed position of the FL tube (not left aligned), and the items that have completed are blank.

Note: The alphabets mentioned above denote the following checks.
SI : SIRCS reception check
KY : Key check
JO : Jog and LED check
NG : There are error items.

SECTION 6
ELECTRICAL ADJUSTMENTS

Instruments required:

1) Color monitor TV
2) Oscilloscope 1 or 2 phenomena, band width over 100 MHz, with delay mode
3) Remote commander
   RM-ASP002
4) CD reference disc
   YEDS-18 (3-702-101-01)
   PATD-012 (4-225-203-01)
5) DVD reference disc
   HLX-501 (J-6090-071-A) (dual layer) (NTSC)
   HLX-503 (J-6090-069-A) (single layer) (NTSC)
   HLX-504 (J-6090-088-A) (single layer) (NTSC)
   HLX-505 (J-6090-089-A) (dual layer) (NTSC)
6) SA-CD reference disc
   HLXA-509 (J-6090-090-A)
7) Extension Cable (J-2501-086-A)

6-1. AUTO SERVO ADJUSTMENT

After parts related to the servo circuit (DVD interface (IC105), CPU (IC256), motor driver (IC103), flash memory (IC253) so on) are replaced, re-adjusting the servo circuit is necessary. Select "ALL" at "Drive Auto Adjustment" (Refer to page 13 in TEST MODE) and adjust DVD-SL (single layer), CD and DVD-DL (dual layer).

6-2. ADJUSTMENT OF VIDEO SYSTEM

6-2-1. Video Level Adjustment

<Purpose>

This adjustment is made to satisfy the NTSC standard, and if not adjusted correctly, the brightness will be too large or small.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	VIDEO OUT connector (J502) (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV601
Specification	1.0 $^{+0.04}_{-0.02}$ Vp-p

Adjusting method:

1) In the Test Mode Menu, select the "6. Video Level Adjustment" so that color bars are generated.
2) Adjust the RV601 to attain 1.0 $^{+0.04}_{-0.02}$ Vp-p.

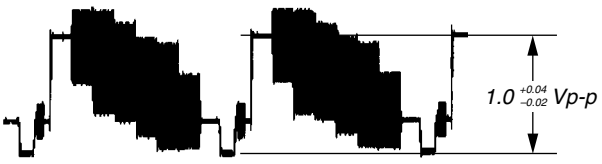


Fig. 6-1

6-2-2. Progressive Video Output Level Adjustment

<Purpose>

This adjusts progressive video output level. If it is incorrect, correct brightness will not be attained when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	COMPONENT VIDEO OUT (Y) connector (J620) (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV600
Specification	1.0 $^{+0.04}_{-0.02}$ Vp-p

Adjusting method:

1) In the Test Mode Menu, select the "6. Video Level Adjustment" so that color bars are generated.
2) Adjust the RV600 to attain 1.0 $^{+0.04}_{-0.02}$ Vp-p.

Fig. 6-2

6-2-3. Checking S Video Output S-Y

<Purpose>

Check S-terminal video output. If it is incorrect, pictures will not be displayed correctly in spite of connection to the monitor with a S-terminal cable.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	S VIDEO OUT (S-Y) connector (J501) (75 Ω terminated)
Instrument	Oscilloscope
Specification	1.0 ± 0.05 Vp-p

Checking method:

1) In the Test Mode Menu, select the "6. Video Level Adjustment" so that color bars are generated.
2) Confirm that the S-Y level is 1.0 ± 0.05 Vp-p.

Fig. 6-3

6-2-4. Checking S Video Output S-C

<Purpose>

This checks whether the S-C satisfies the NTSC standard. If it is not correct, the colors will be to dark or light.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	S VIDEO OUT (S-C) connector (J501) (75 Ω terminated)
Instrument	Oscilloscope
Specification	A = 286 ± 30 mVp-p

Checking method:

1) In the Test Mode Menu, select the "6. Video Level Adjustment" so that color bars are generated.
2) Confirm that the S-C burst is "A".

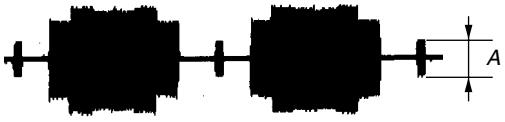


Fig. 6-4

6-2-5. Checking Component Video Output Y

<Purpose>

This checks component video output Y. If it is incorrect, correct brightness will not be attained when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	COMPONENT VIDEO OUT (Y) connector (J620) (75 Ω terminated)
Instrument	Oscilloscope
Specification	1.0 ± 0.05 Vp-p

Checking method:

1) In the Test Mode Menu, select the "6. Video Level Adjustment" so that color bars are generated.
2) Confirm that the Y level is 1.0 ± 0.05 Vp-p.

Fig. 6-5

6-2-6. Checking Component Video Output B-Y

<Purpose>

This checks component video output B-Y. If it is incorrect, correct colors will not be displayed when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	COMPONENT VIDEO OUT (P_B/C_B) connector (J660) (75 Ω terminated)
Instrument	Oscilloscope
Specification	700 ± 50 mVp-p

Checking method:

1) In the Test Mode Menu, select the "6. Video Level Adjustment" so that color bars are generated.
2) Confirm that the B-Y level is 700 ± 50 mVp-p.

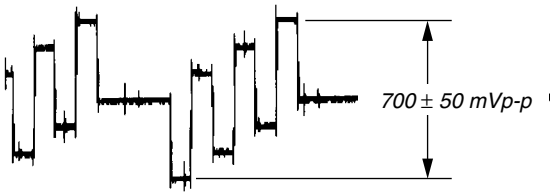


Fig. 6-6

6-2-7. Checking Component Video Output R-Y

<Purpose>

This checks component video output R-Y. If it is incorrect, correct colors will not be displayed when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	COMPONENT VIDEO OUT (P_R/C_R) connector (J102) (75 Ω terminated)
Instrument	Oscilloscope
Specification	700 ± 50 mVp-p

Checking method:

1) In the Test Mode Menu, select the "6. Video Level Adjustment" so that color bars are generated.
2) Confirm that the R-Y level is 700 ± 50 mVp-p.

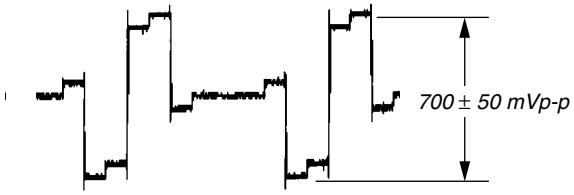
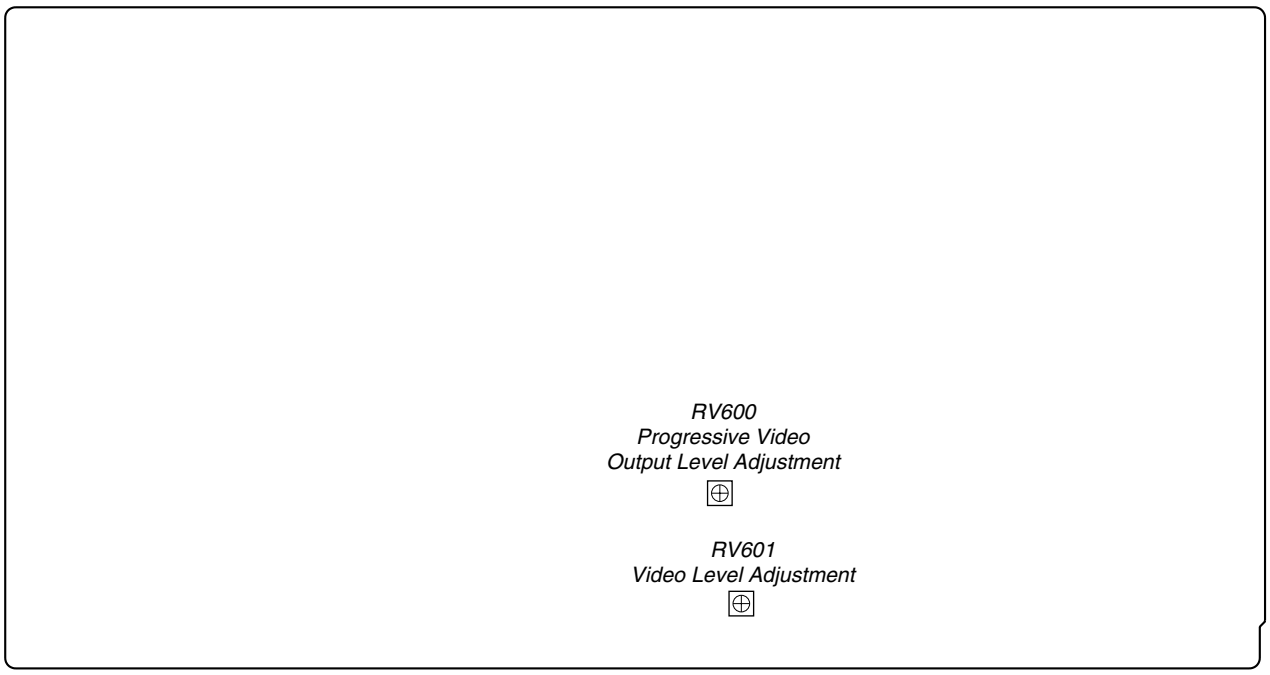


Fig. 6-7

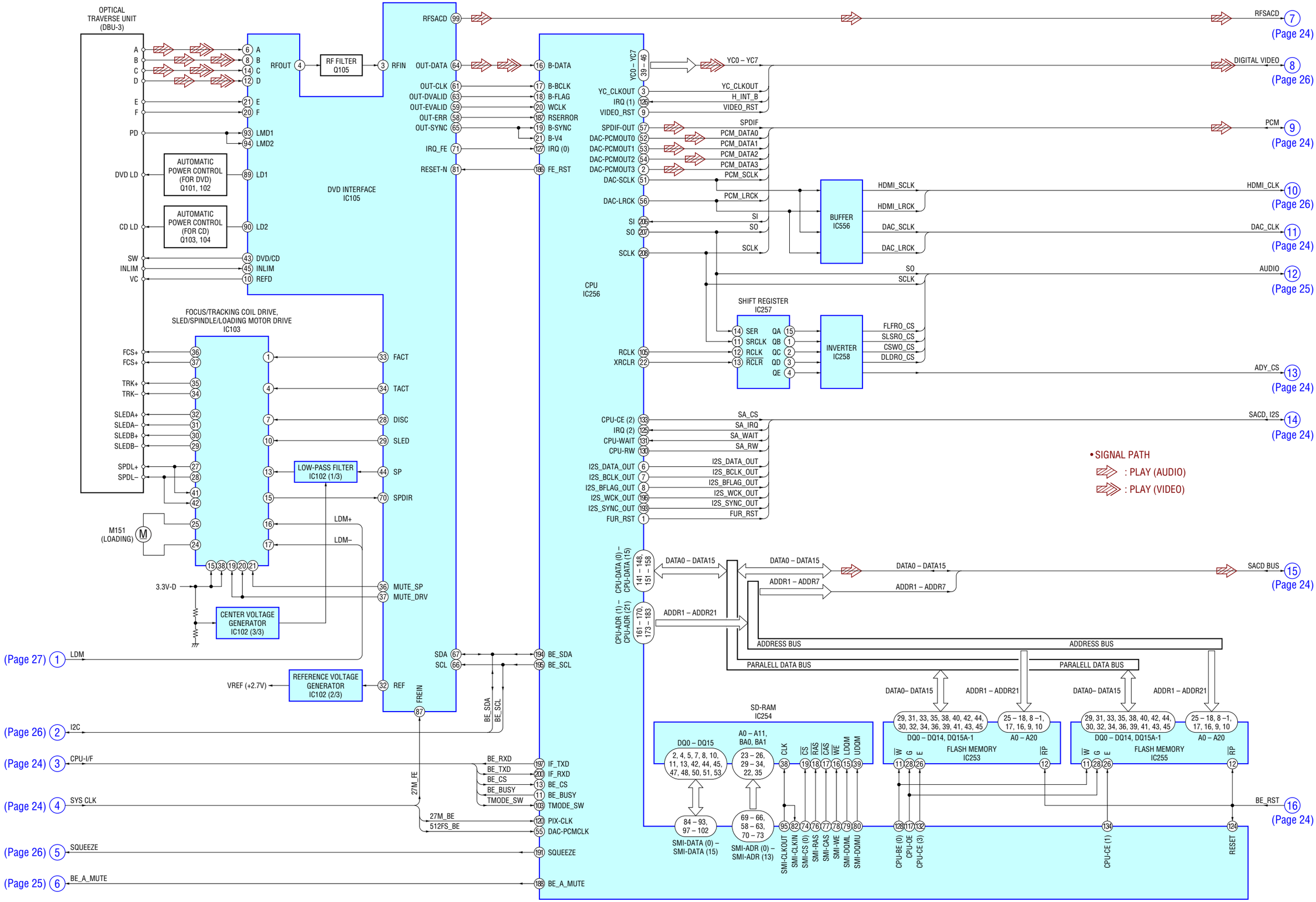
Adjustment Location:

– MAIN Board (Side A) –

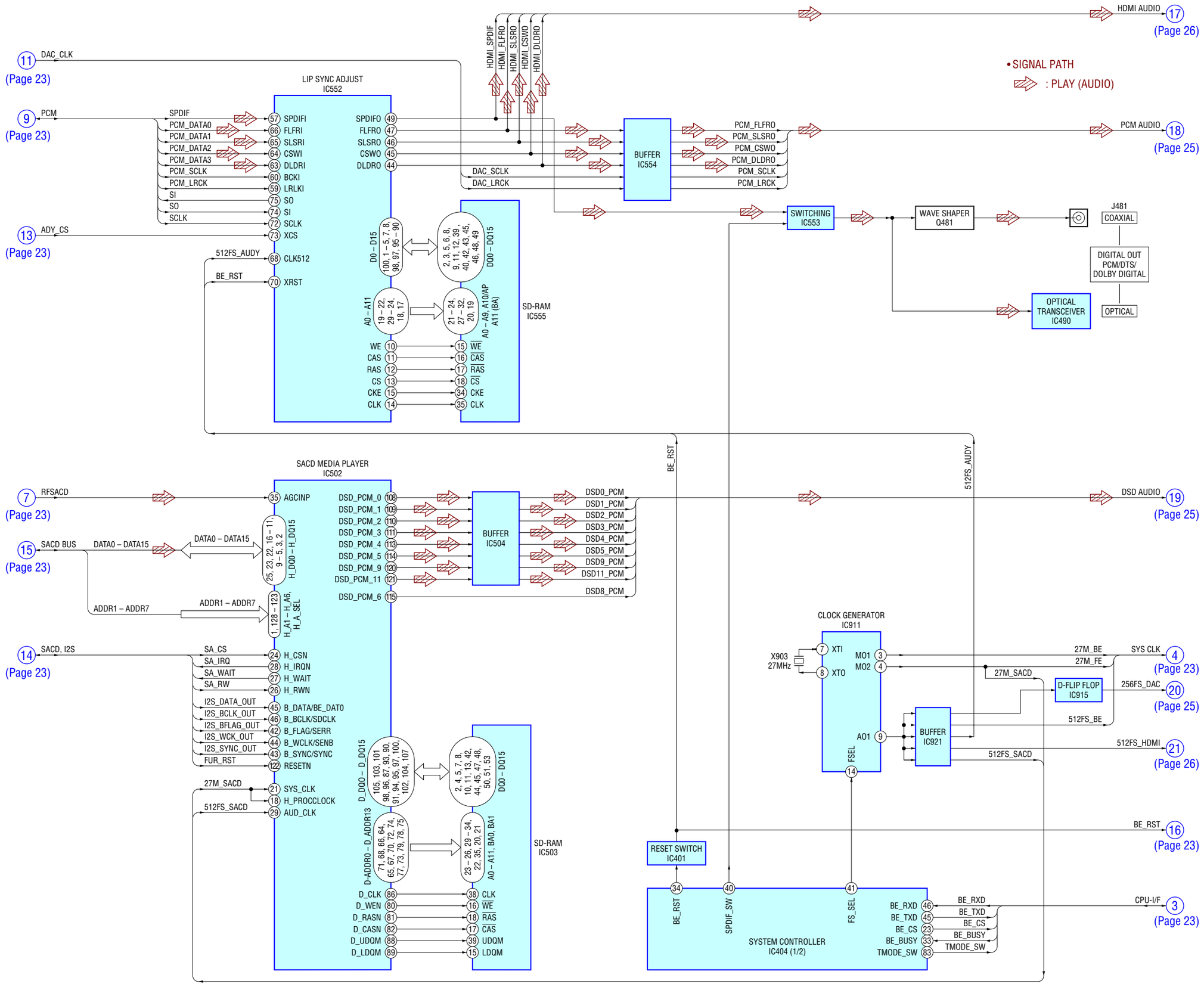


SECTION 7
DIAGRAMS

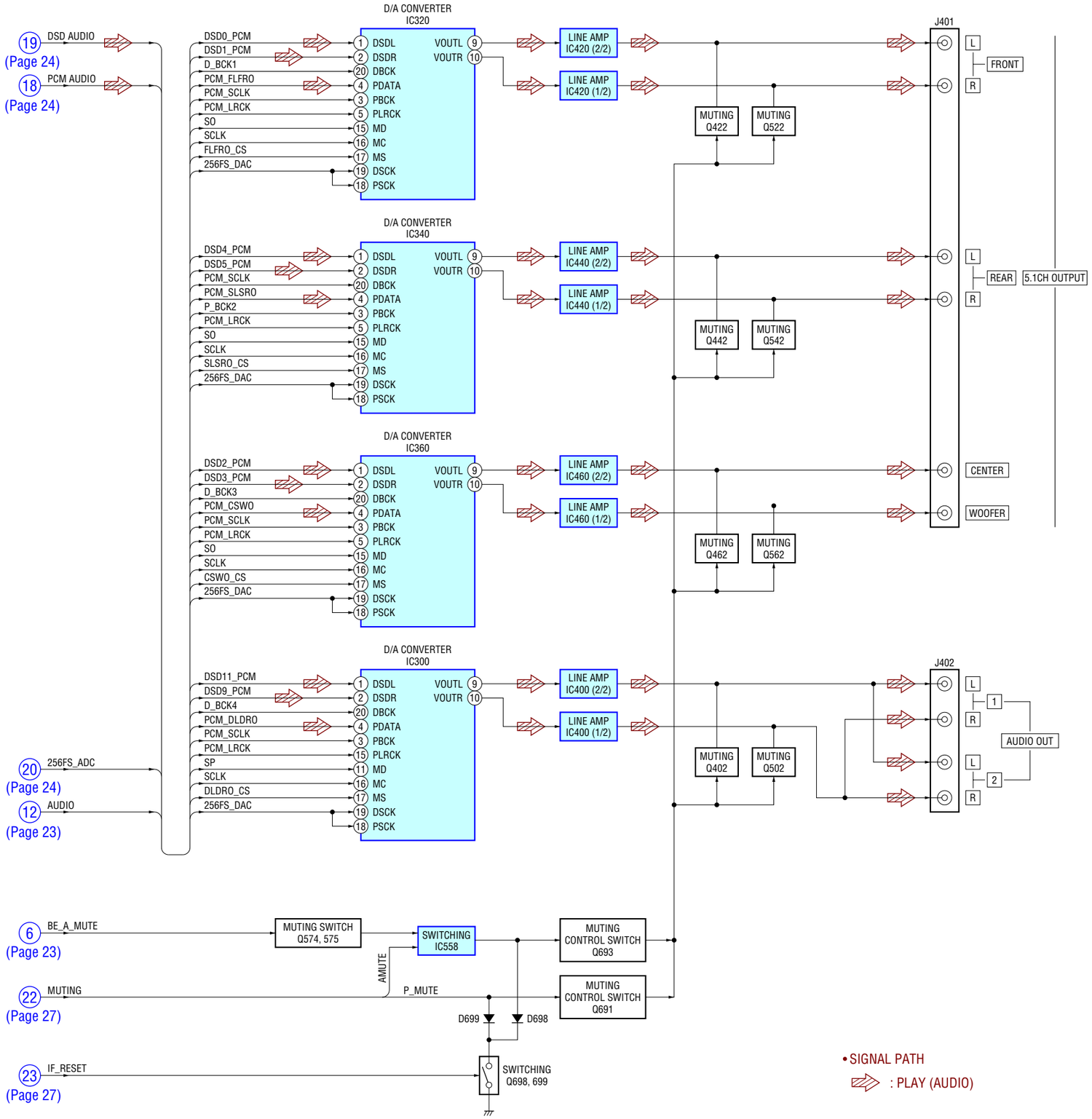
7-1. BLOCK DIAGRAM – SERVO SECTION –



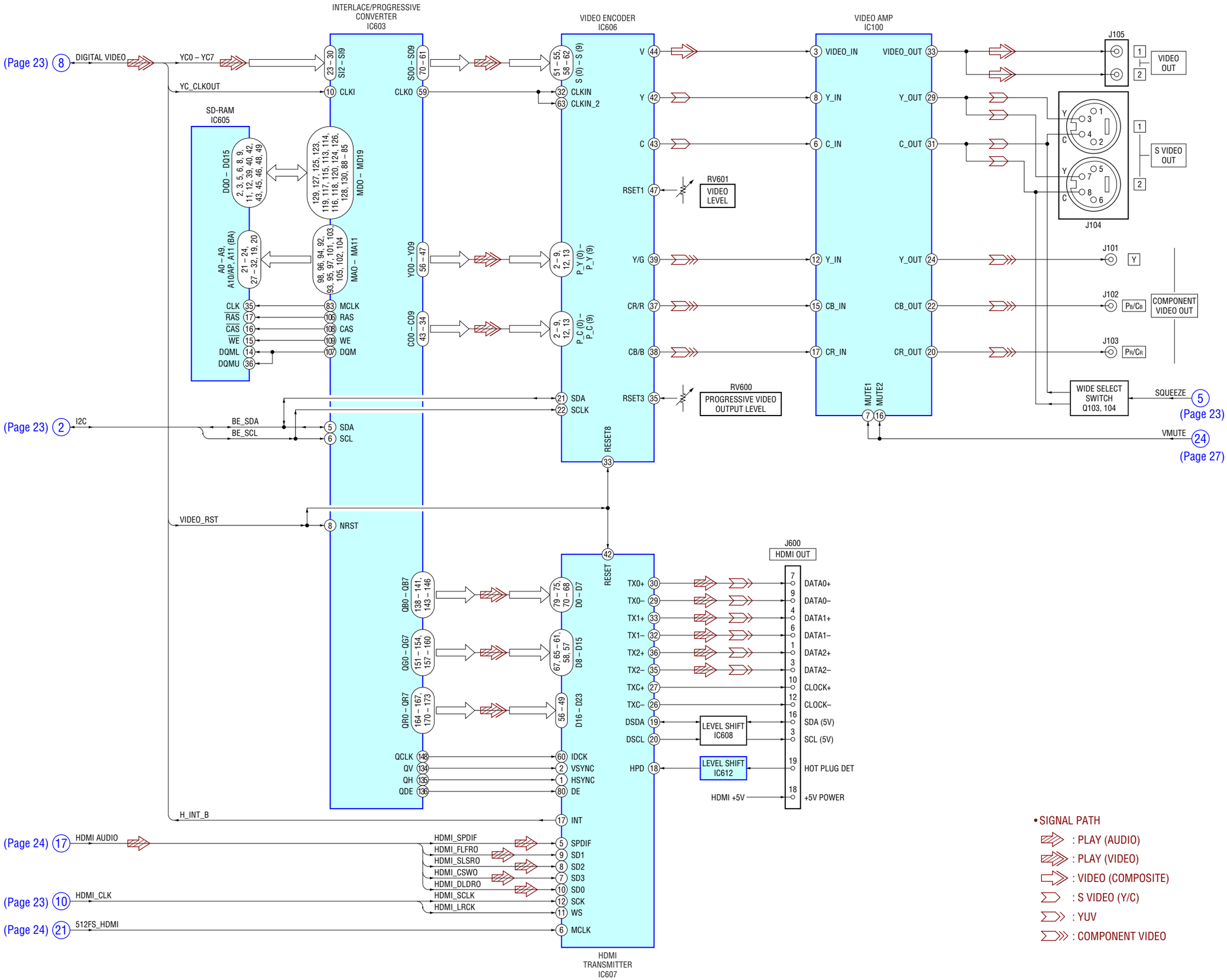
7-2. BLOCK DIAGRAM – AUDIO SECTION (1/2) –



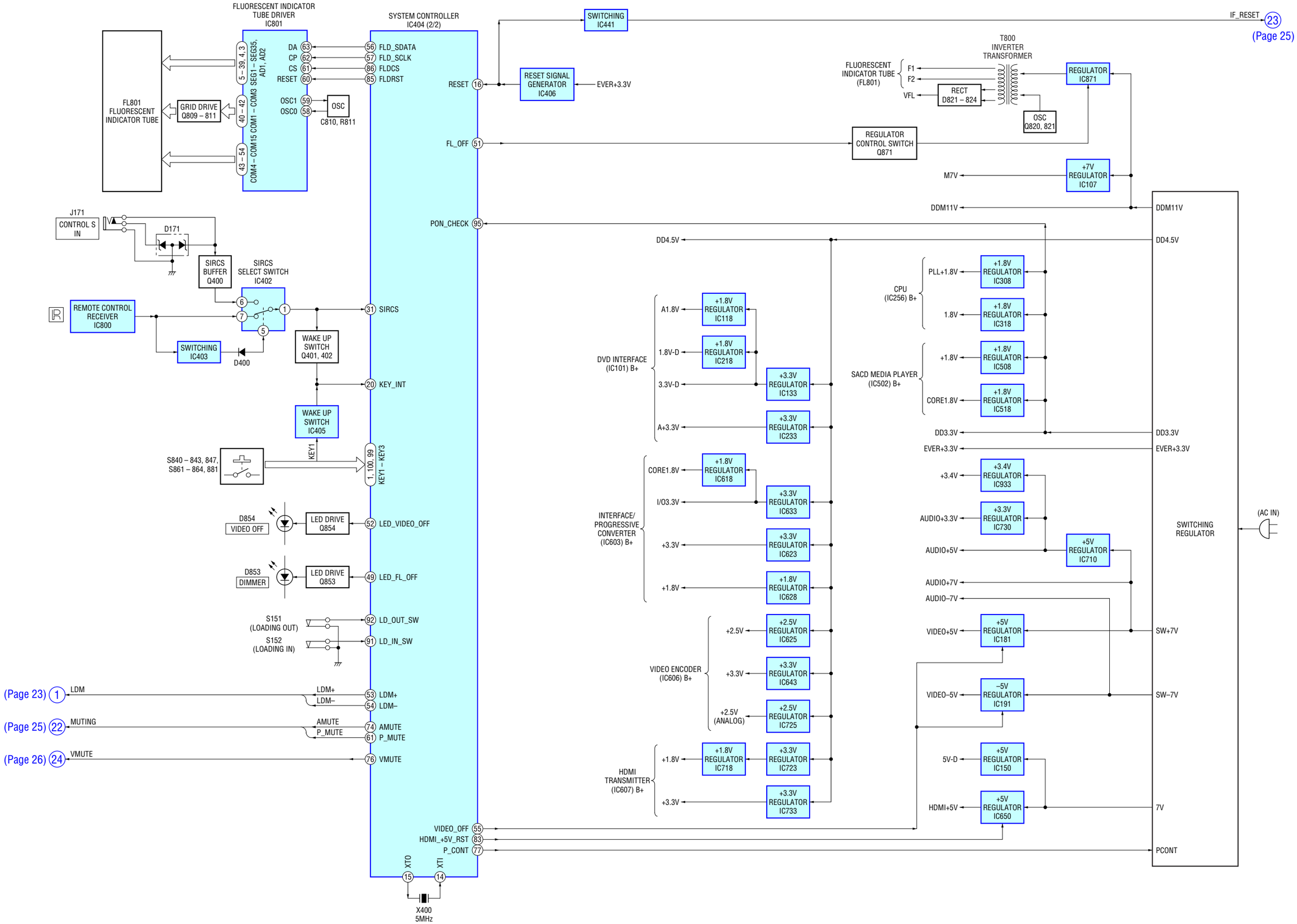
7-3. BLOCK DIAGRAM – AUDIO SECTION (2/2) –



7-4. BLOCK DIAGRAM – VIDEO SECTION –



7-5. BLOCK DIAGRAM – PANEL/POWER SUPPLY SECTION –



• Note for Printed Wiring Boards and Schematic Diagrams

Note on Printed Wiring Board:

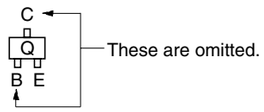
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- MAIN board is multi-layer printed board. However, the patterns of intermediate-layer have not been included in diagram.
- Indication of transistor



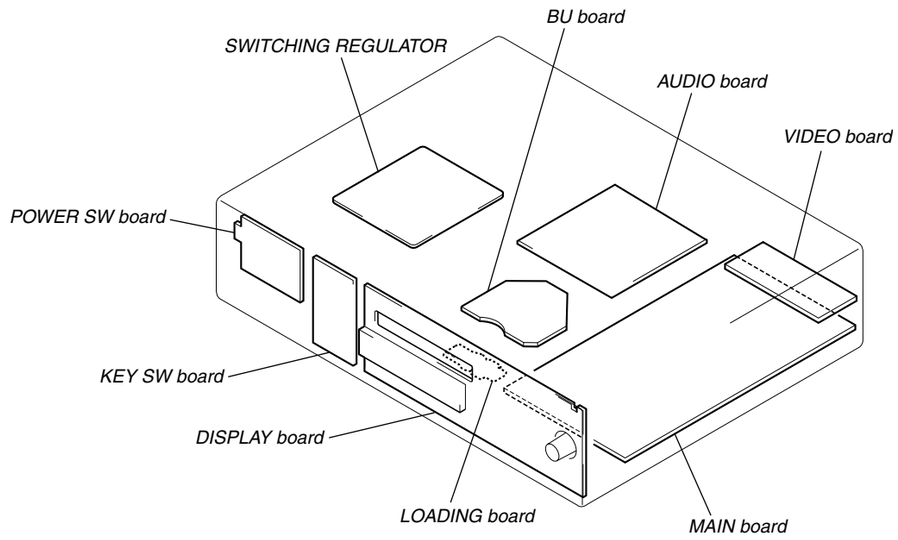
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : DVD PLAY
  ( ) : SA-CD PLAY
  [ ] : CD PLAY
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : PLAY (AUDIO)
  ⇨ : PLAY (VIDEO)
  ⇨ : VIDEO (COMPOSITE)
  Σ : S VIDEO (Y/C)
  Σ : YUV
  Σ : COMPONENT VIDEO

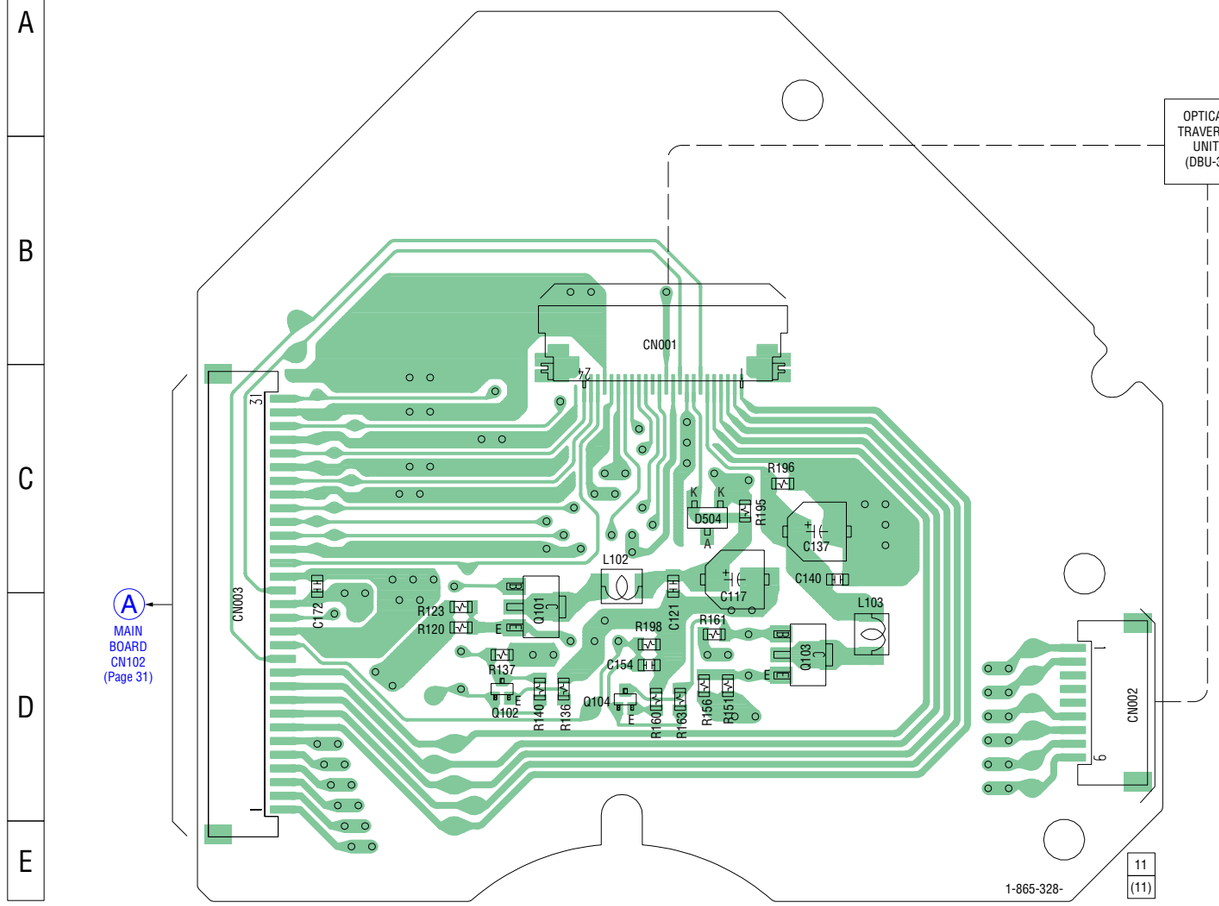
• Circuit Boards Location



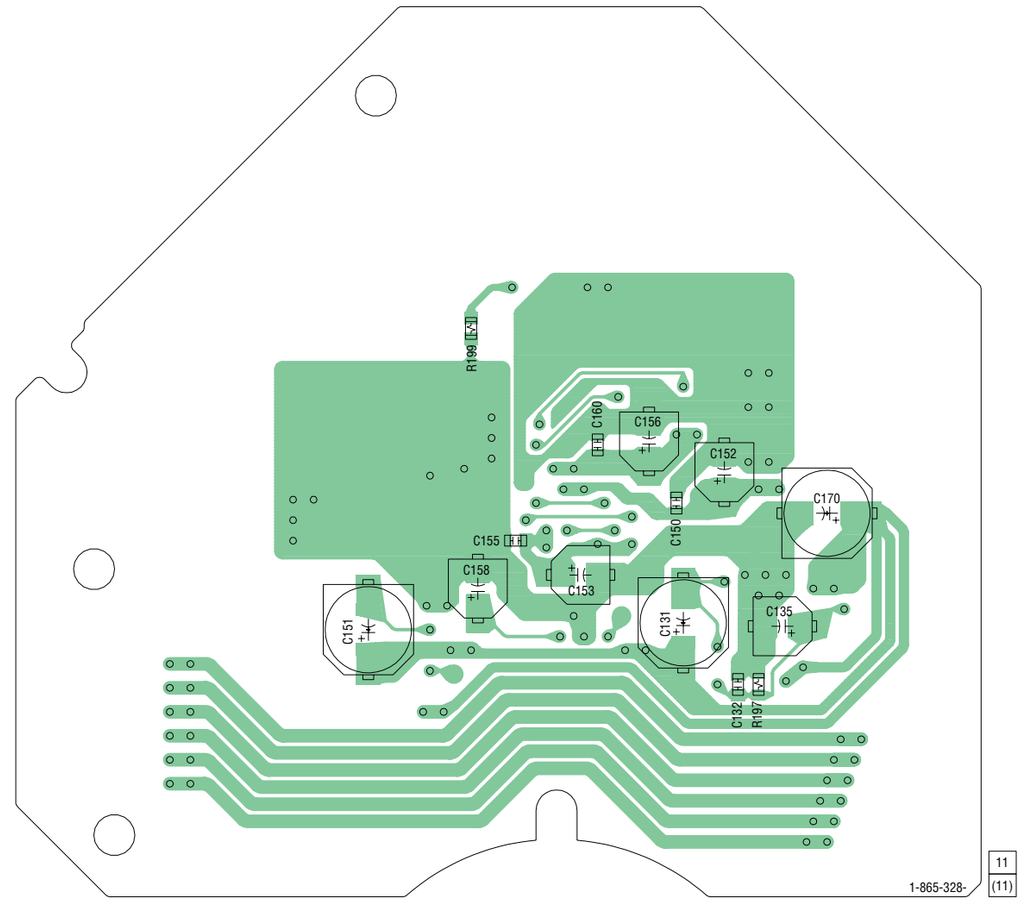
7-6. PRINTED WIRING BOARDS – BU BOARD –

• See page 28 for Circuit Boards Location. : Uses unleaded solder.

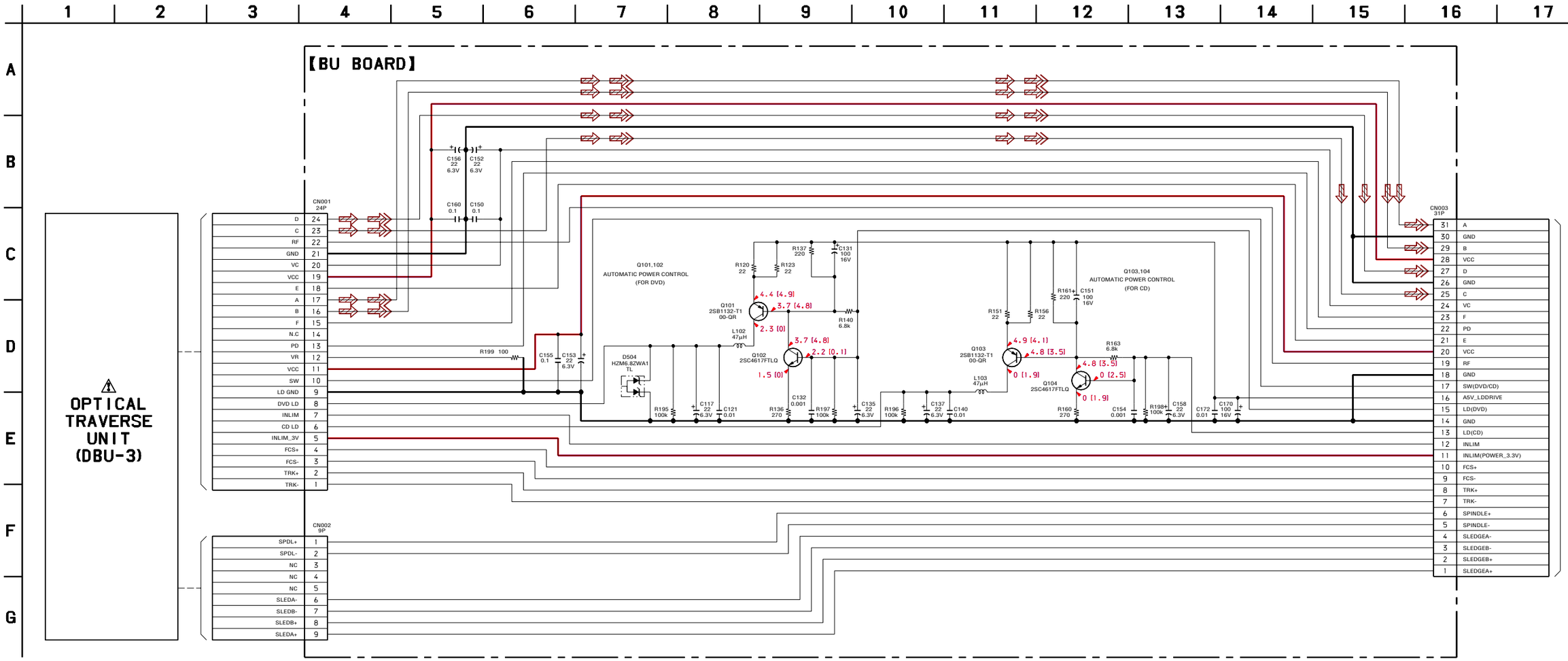
【BU BOARD】(SIDE A)



【BU BOARD】(SIDE B)



7-7. SCHEMATIC DIAGRAM – BU BOARD –



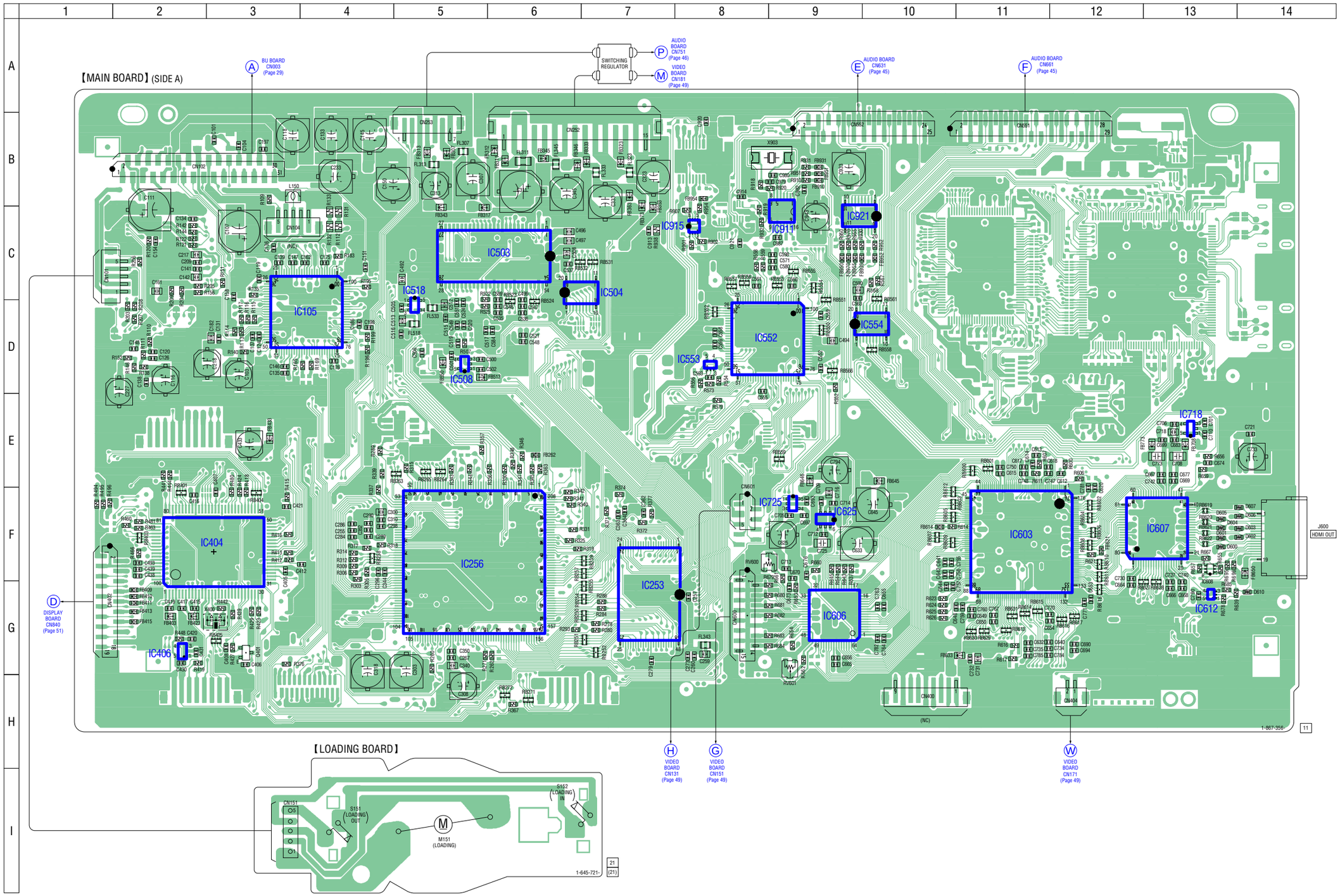
7-8. PRINTED WIRING BOARDS – MAIN SECTION (1/2) –

• See page 28 for Circuit Boards Location.

: Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D600	F-13
D601	F-13
D602	F-14
D603	F-14
D604	F-13
D605	F-13
D606	F-14
D607	F-14
D610	G-14
IC105	D-4
IC253	G-7
IC256	F-5
IC404	F-3
IC406	G-2
IC503	C-6
IC504	C-7
IC508	D-5
IC518	D-5
IC552	D-8
IC553	D-8
IC554	D-10
IC603	F-11
IC606	G-9
IC607	F-13
IC608	F-13
IC612	G-13
IC625	F-9
IC718	E-13
IC725	F-9
IC911	C-9
IC915	C-8
IC921	C-9
Q401	G-3

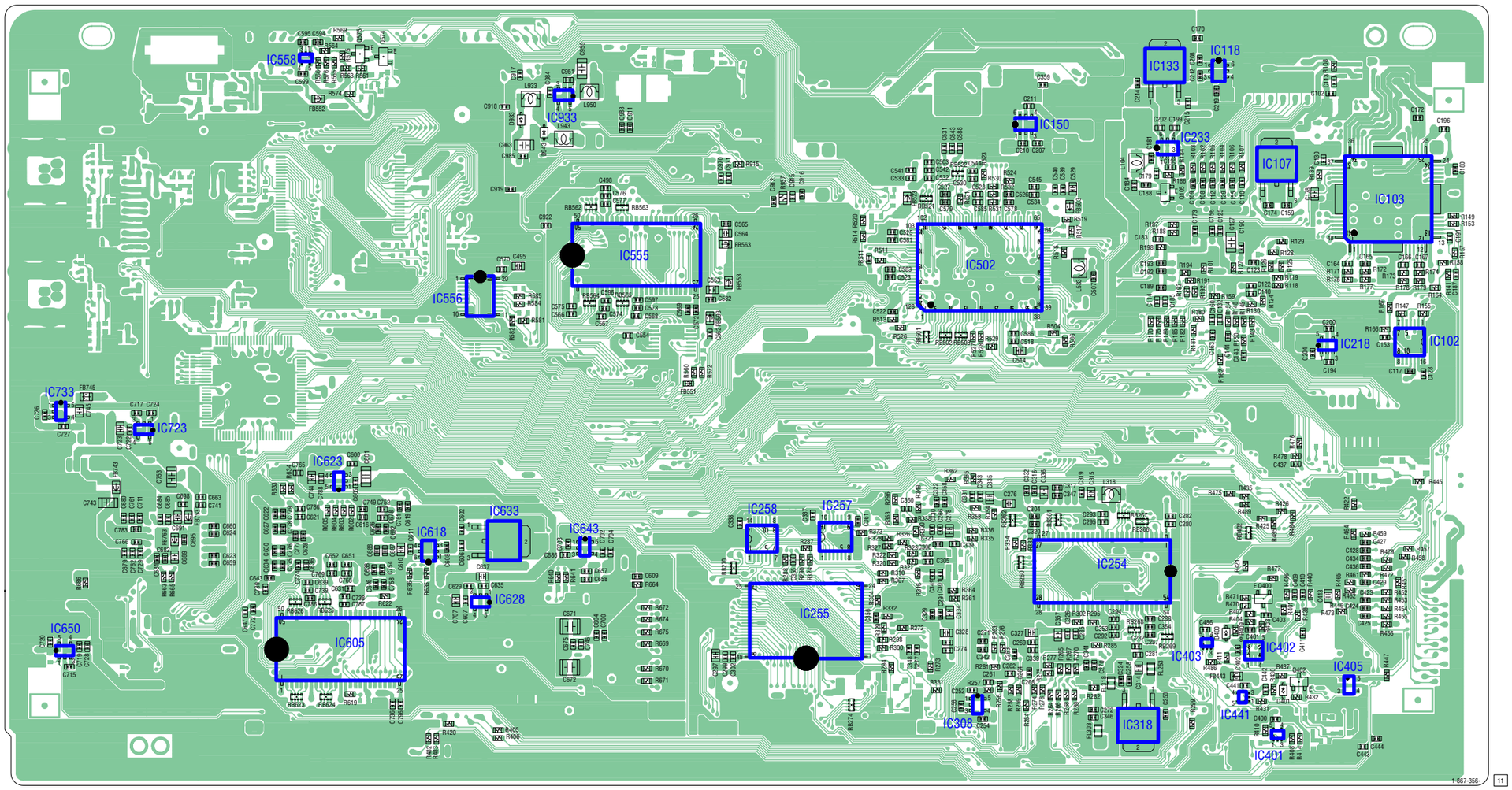


7-9. PRINTED WIRING BOARD – MAIN SECTION (2/2) –

• See page 28 for Circuit Boards Location.

: Uses unleaded solder.

【MAIN BOARD】(SIDE B)

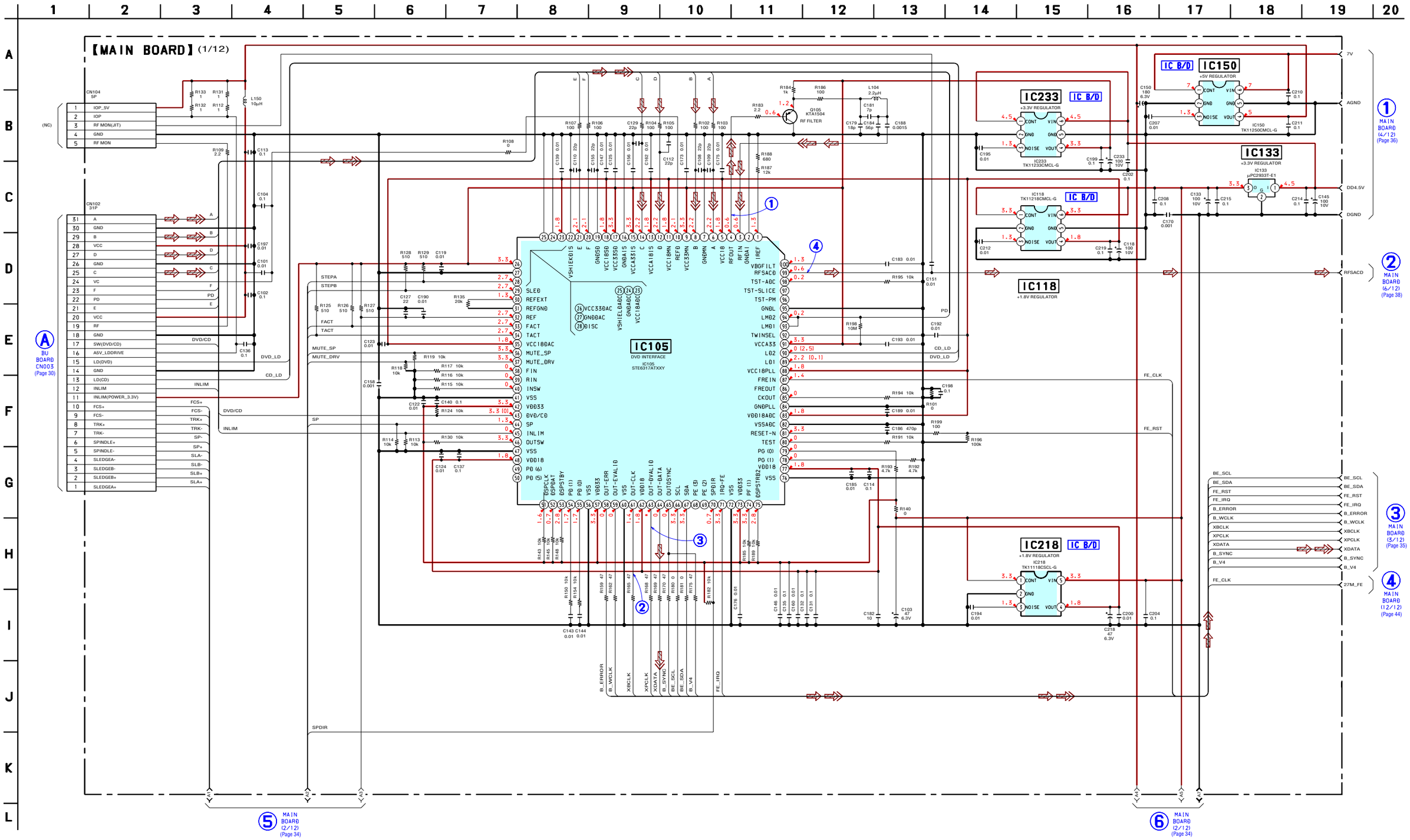


• **Semiconductor Location**

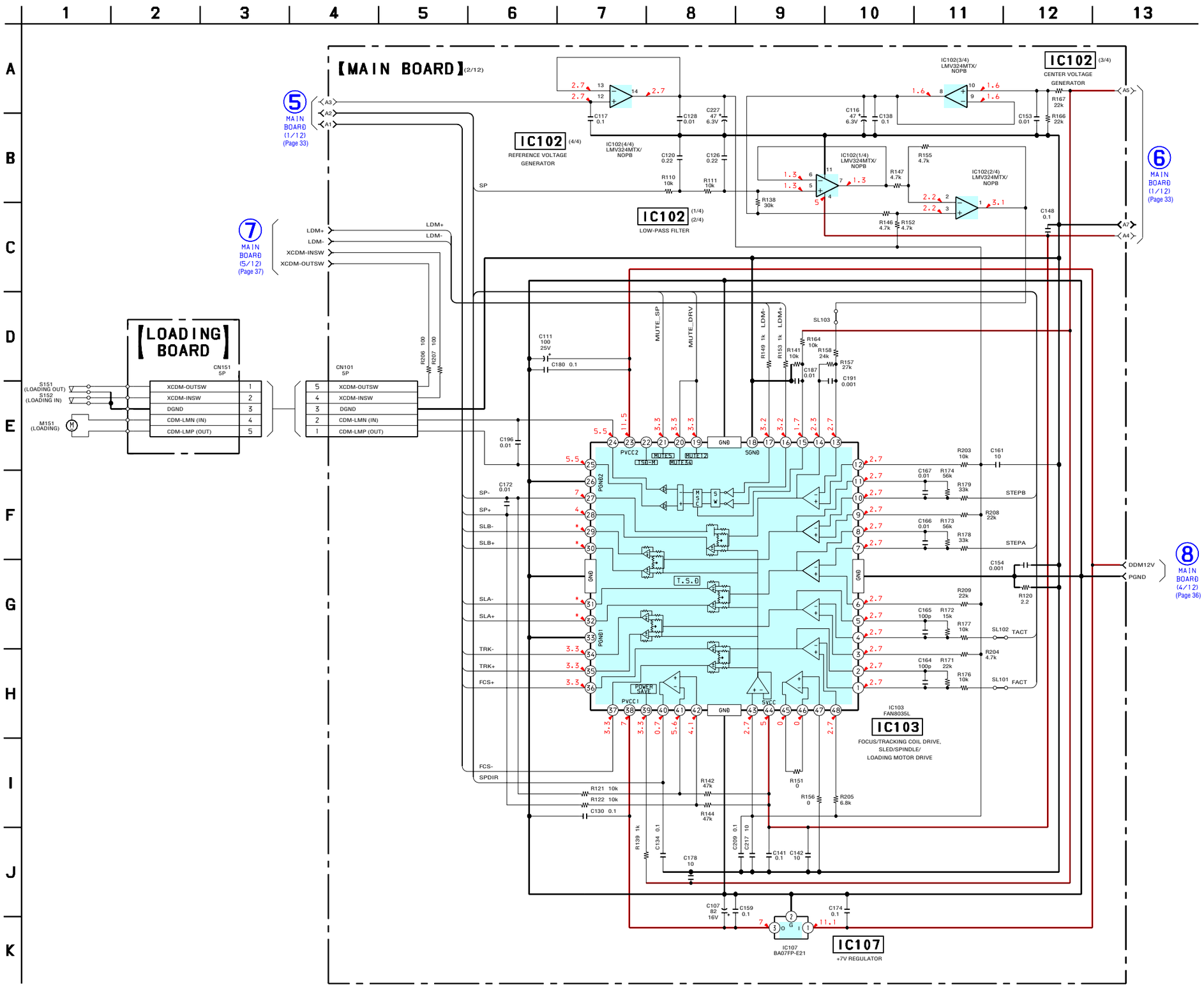
Ref. No.	Location
D400	G-12
D401	G-12
D933	B-6
D943	B-6
IC102	D-13
IC103	C-13
IC107	C-12
IC118	B-12
IC133	B-11
IC150	B-10
IC218	D-13
IC233	C-11
IC254	F-11
IC255	G-8
IC257	F-8
IC258	F-8
IC308	G-10
IC318	H-11
IC401	H-12
IC402	G-12
IC403	G-12
IC405	G-13
IC441	G-12
IC502	D-10
IC555	C-7
IC556	D-5
IC558	B-4
IC605	G-4
IC618	F-5
IC623	E-4
IC628	F-5
IC633	F-5
IC643	F-6
IC650	G-2
IC723	E-2
IC733	E-2
IC933	B-6
Q103	C-6
Q104	C-6
Q105	C-11
Q400	F-12
Q402	G-12
Q574	B-4
Q575	B-4

7-10. SCHEMATIC DIAGRAM – MAIN SECTION (1/12) –

• See page 53 for Waveforms. • See page 59 for IC Block Diagrams. • See page 63 for IC Pin Function Description.

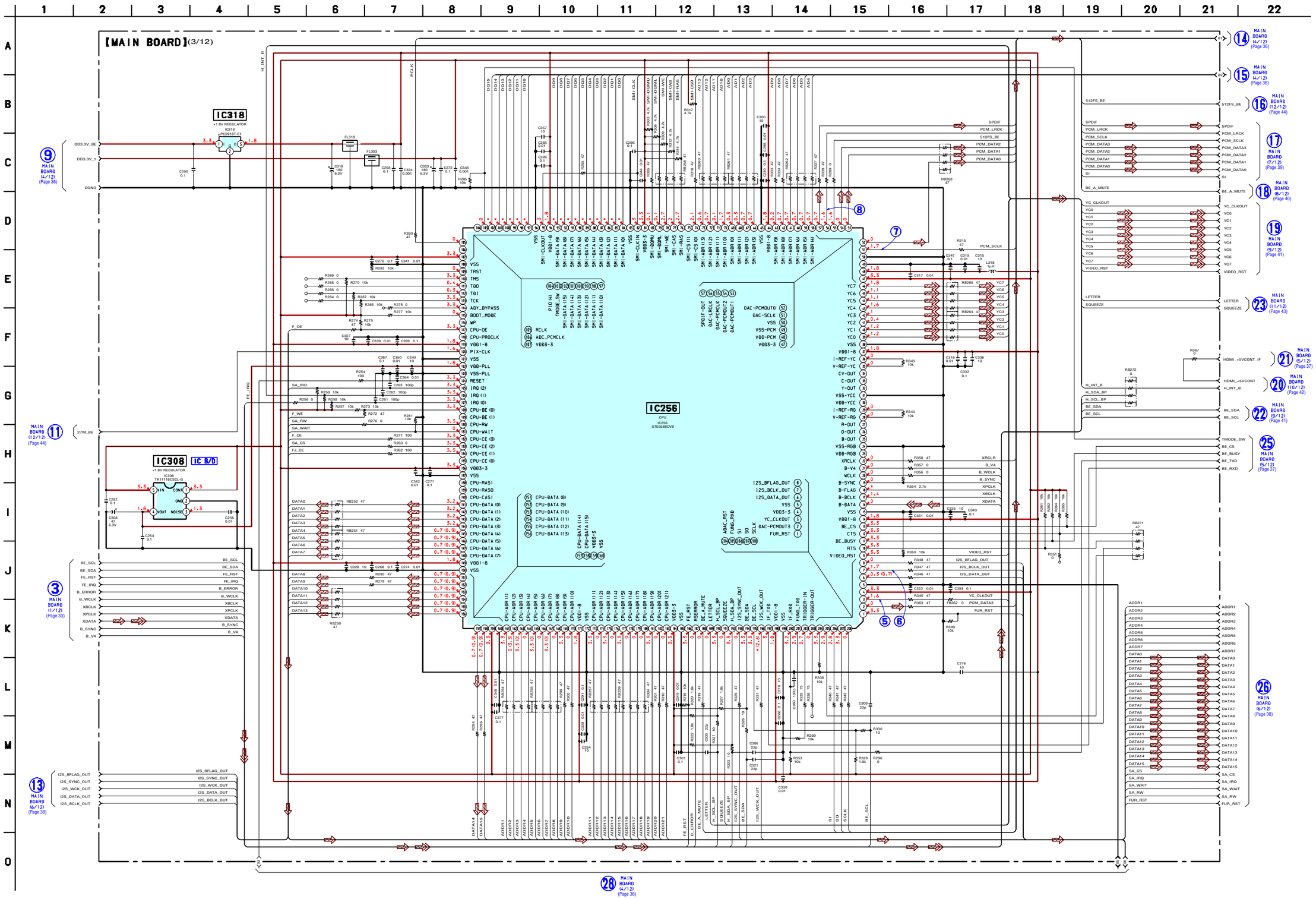


7-11. SCHEMATIC DIAGRAM – MAIN SECTION (2/12) –



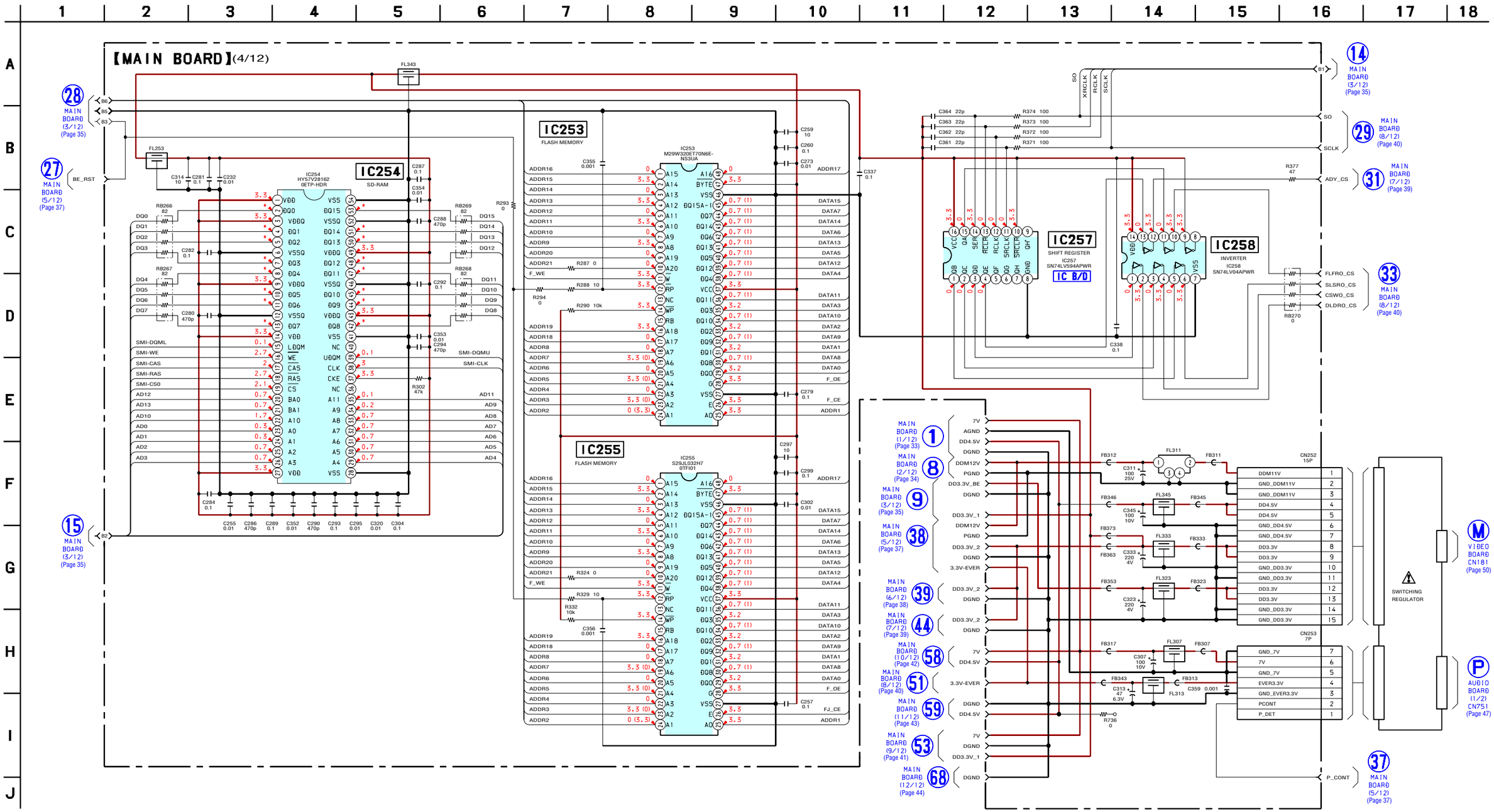
7-12. SCHEMATIC DIAGRAM – MAIN SECTION (3/12) –

• See page 53 for Waveforms. • See page 59 for IC Block Diagrams. • See page 66 for IC Pin Function Description.



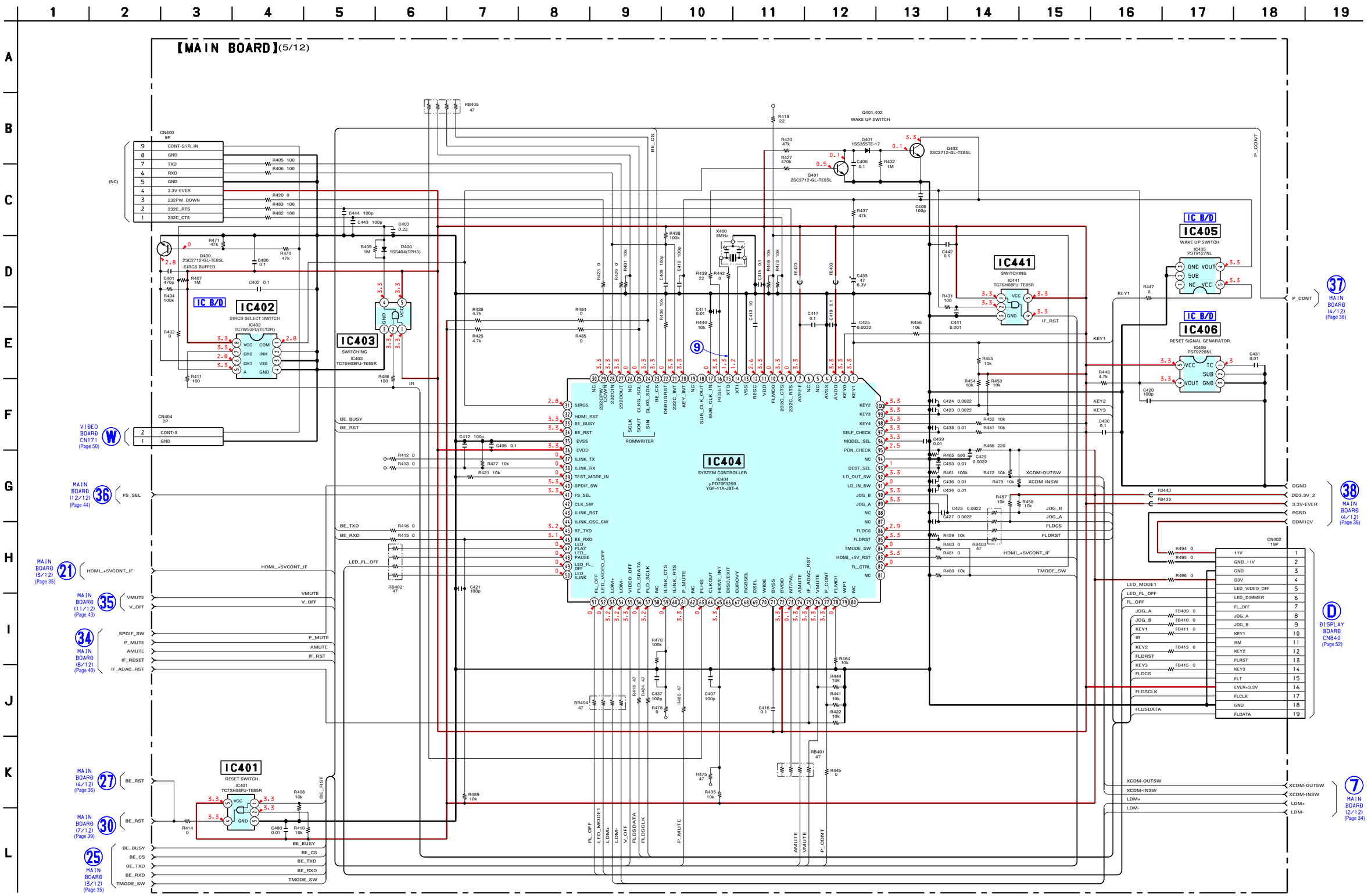
7-13. SCHEMATIC DIAGRAM – MAIN SECTION (4/12) –

See page 58 for IC Block Diagrams.



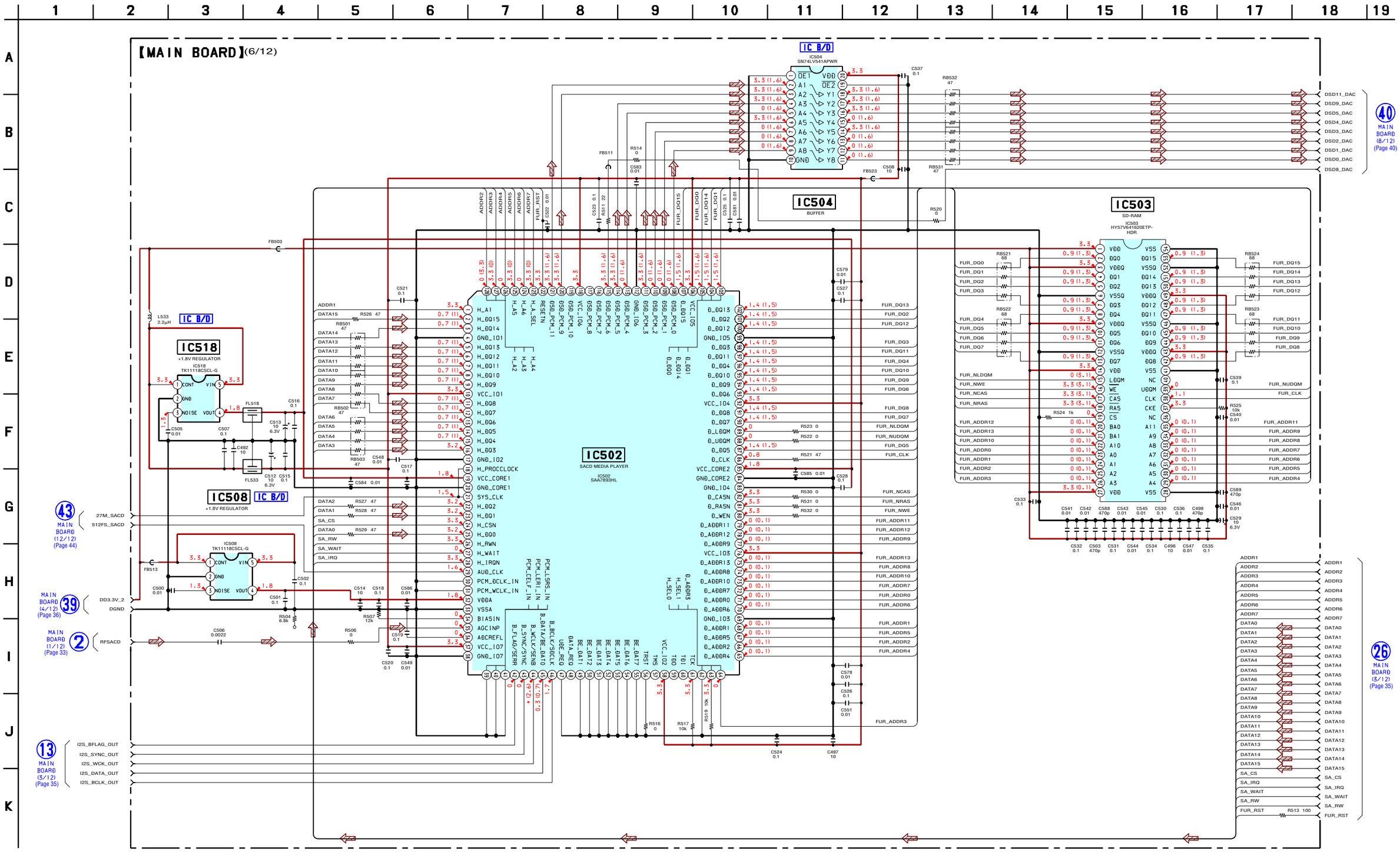
7-14. SCHEMATIC DIAGRAM – MAIN SECTION (5/12) –

• See page 53 for Waveforms. • See page 55, 56, 59 for IC Block Diagrams. • See page 70 for IC Pin Function Description.



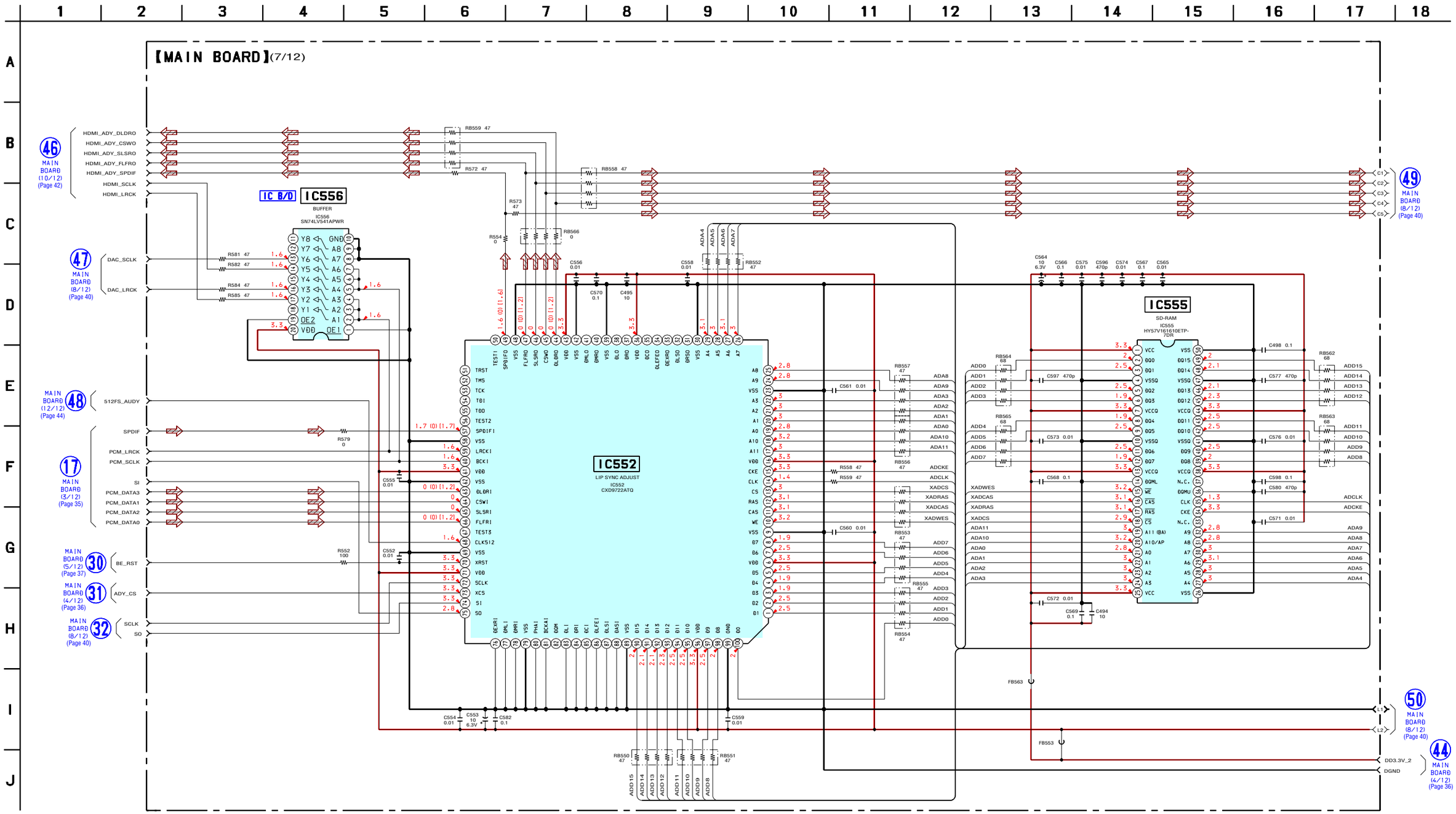
7-15. SCHEMATIC DIAGRAM – MAIN SECTION (6/12) –

• See page 57, 59 for IC Block Diagrams. • See page 73 for IC Pin Function Description.



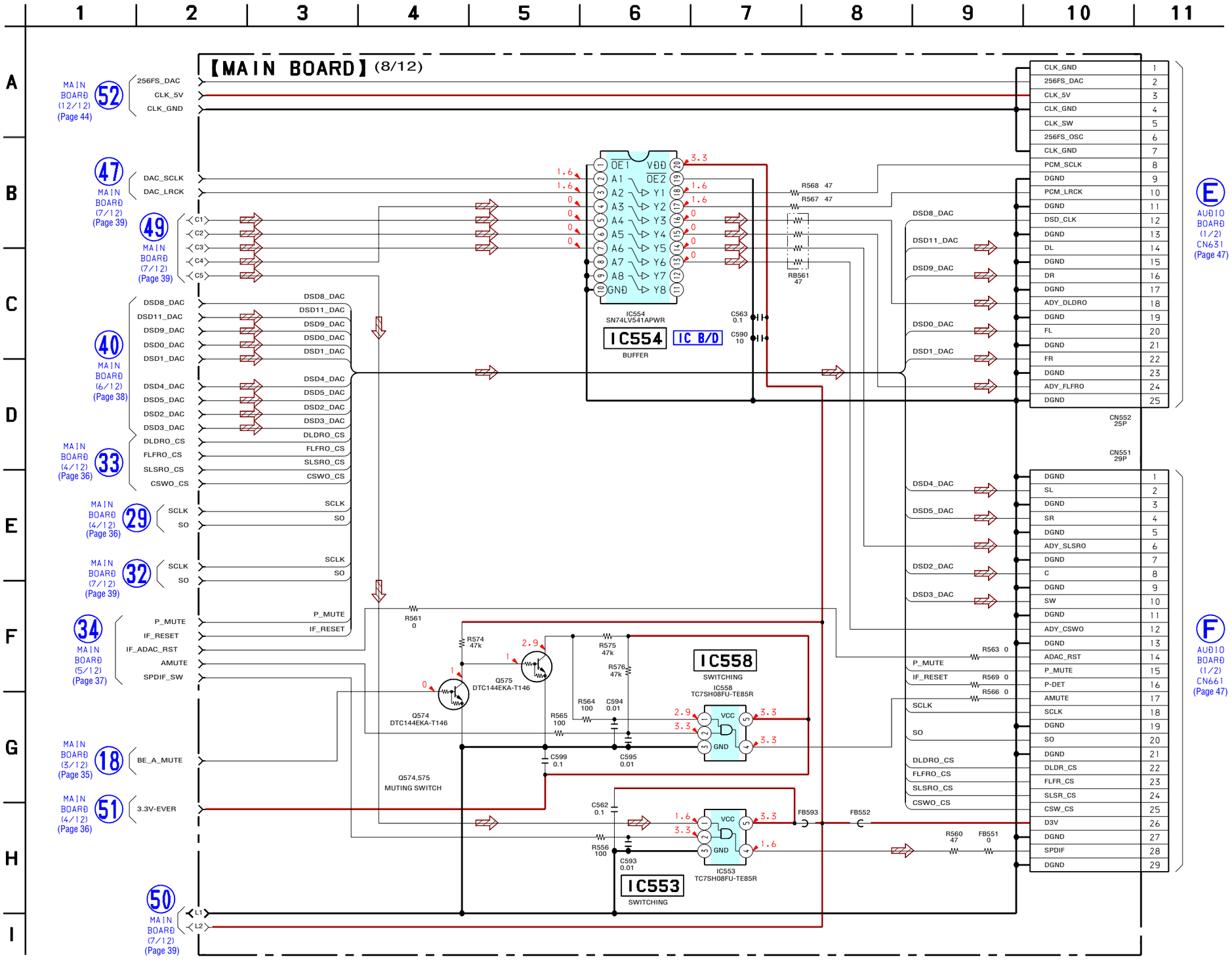
7-16. SCHEMATIC DIAGRAM – MAIN SECTION (7/12) –

• See page 57 for IC Block Diagrams. • See page 76 for IC Pin Function Description.



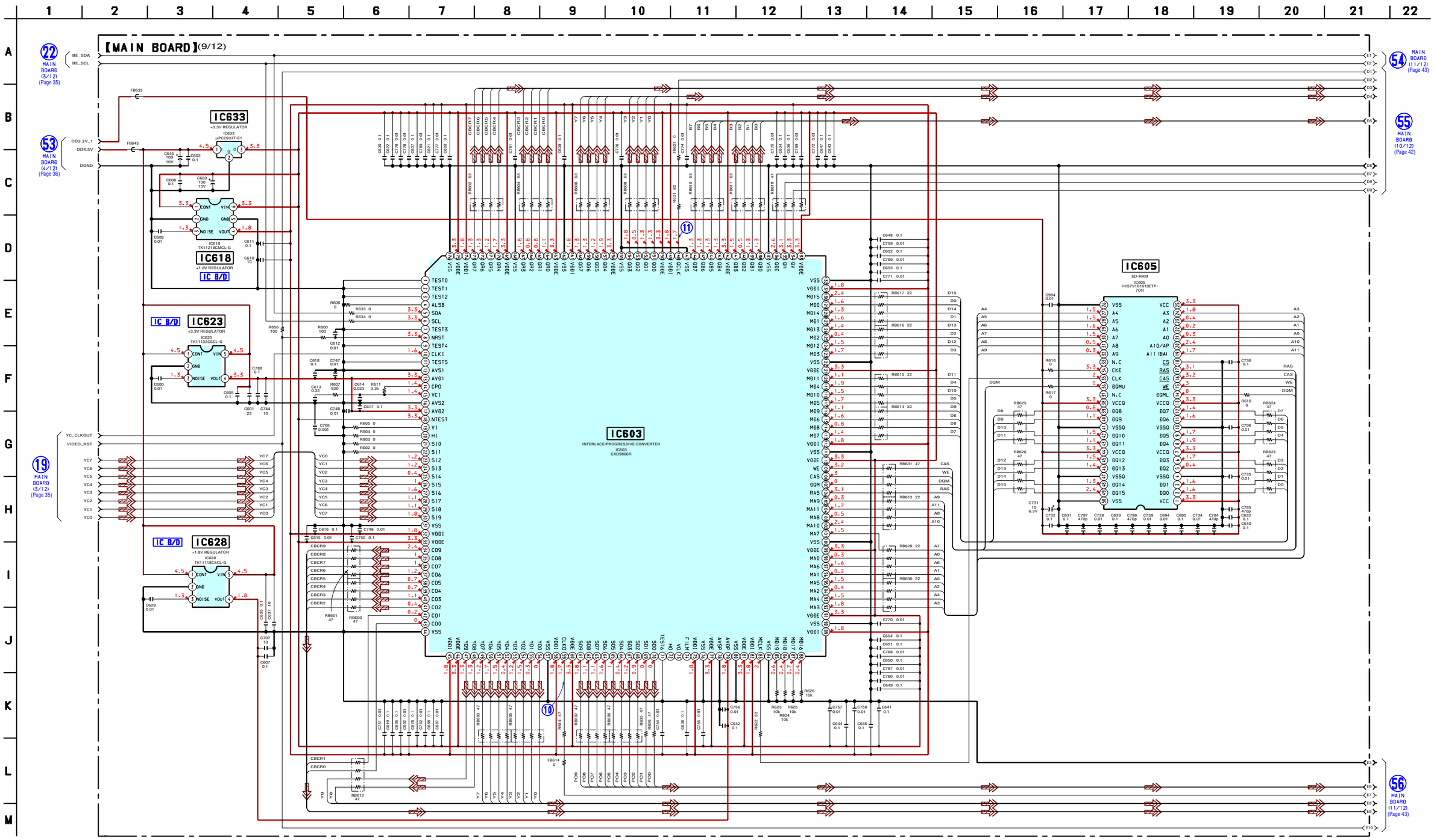
7-17. SCHEMATIC DIAGRAM – MAIN SECTION (8/12) –

• See page 57 for IC Block Diagrams.

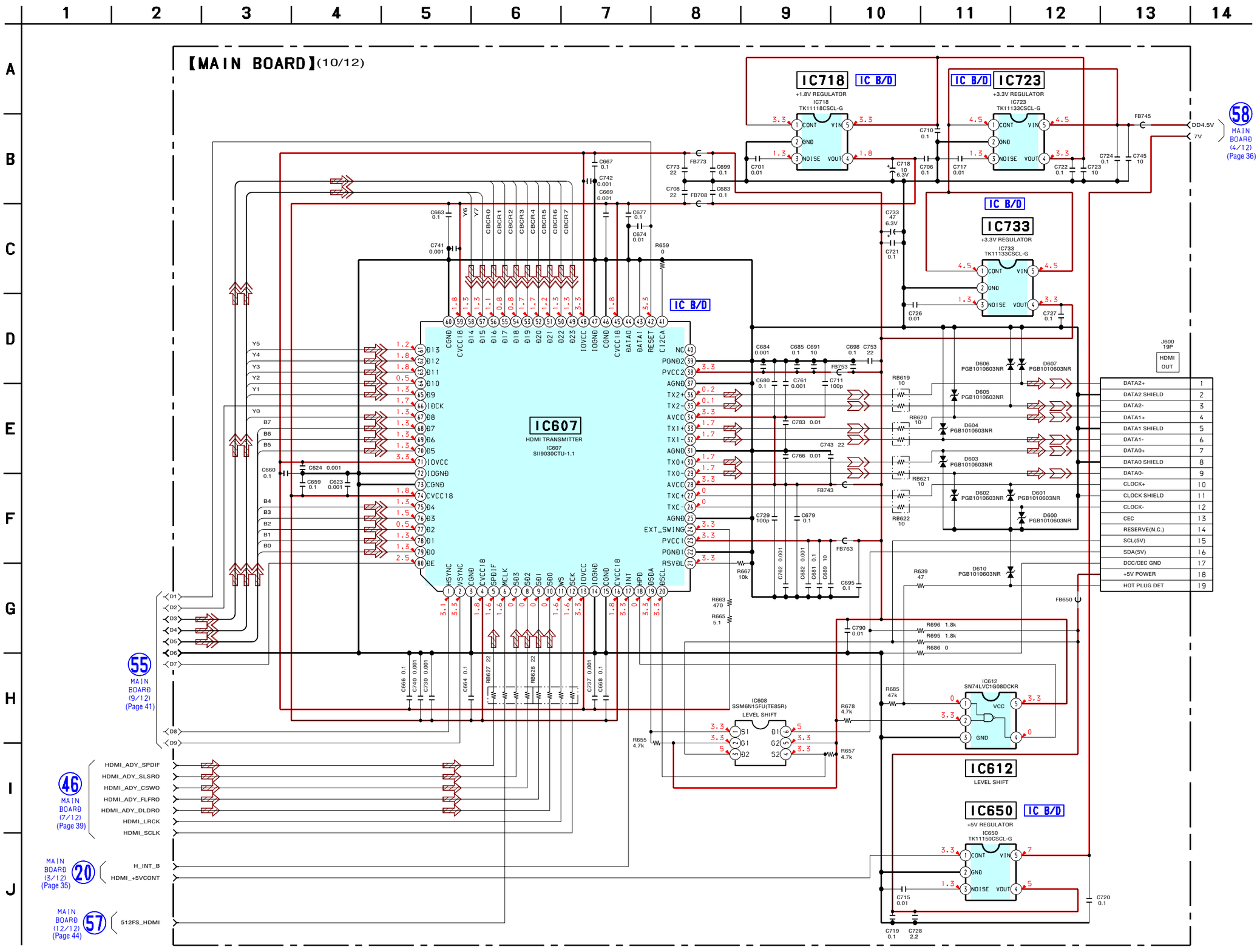


7-18 . SCHEMATIC DIAGRAM – MAIN SECTION (9/12) –

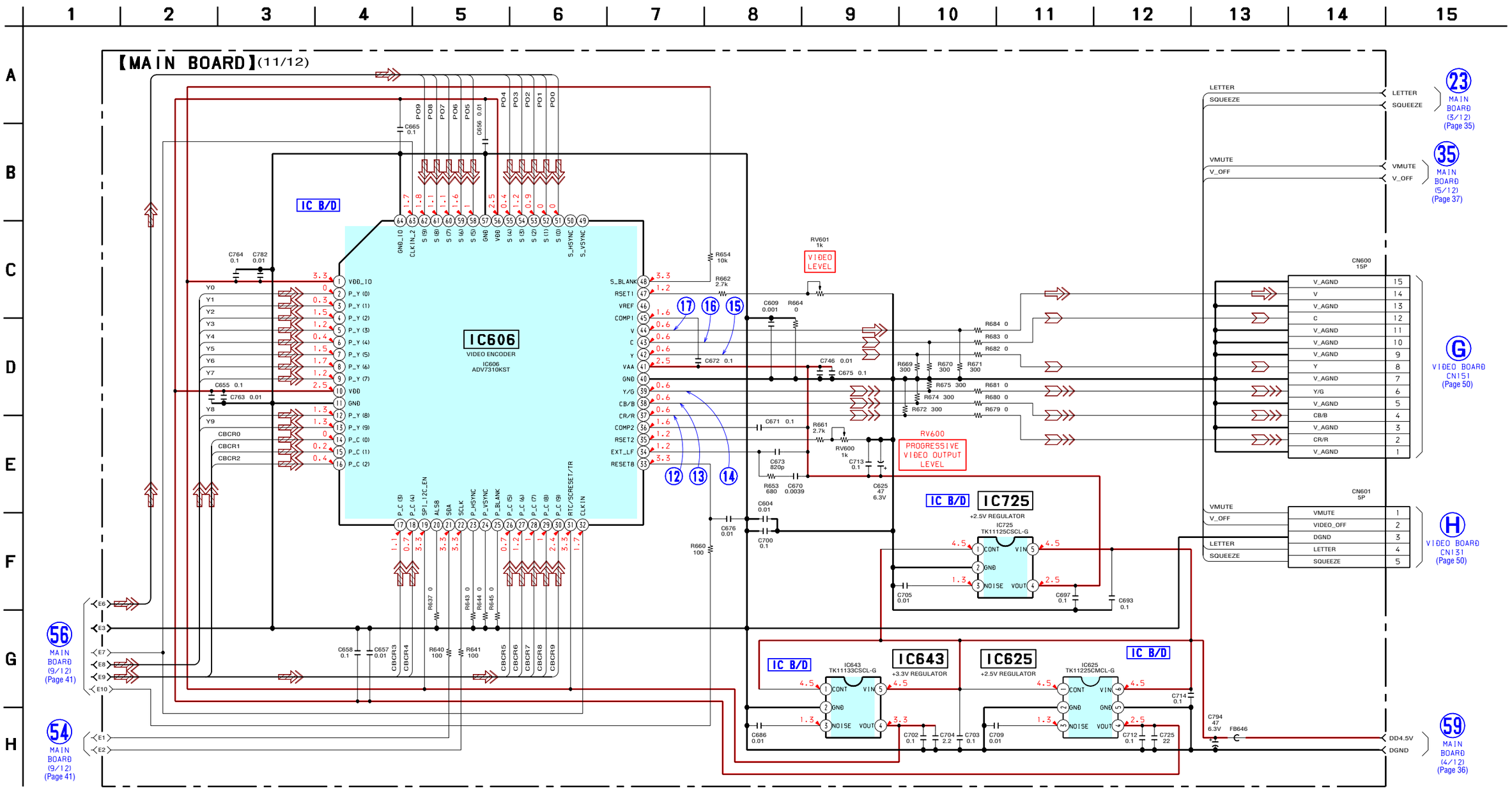
• See page 53 for Waveforms. • See page 59 for IC Block Diagrams. • See page 78 for IC Pin Function Description.



7-19 . SCHEMATIC DIAGRAM – MAIN SECTION (10/12) – • See page 56, 59 for IC Block Diagrams.



7-20 . SCHEMATIC DIAGRAM – MAIN SECTION (11/12) – • See page 53 for Waveforms. • See page 55, 59 for IC Block Diagrams.



7-21 . SCHEMATIC DIAGRAM – MAIN SECTION (12/12) – • See page 53 for Waveforms. • See page 57, 58, 59 for IC Block Diagrams.

【MAIN BOARD】(12/12)

IC915 D-FLIP FLOP
IC915 SN74LVC2G74DCUR
IC921 BUFFER
IC921 SN74LV541APWR
IC933 TK11134CSCL-G
IC933 +3.4V REGULATOR
IC911 CLOCK GENERATOR
IC911 SM8707EV-G-E2
IC B/D

CLK_5V
CLK_GND
256FS_DAC
512FS_BE
512FS_AUDY
512FS_HDMI
512FS_SACD
27M_SACD
27M_FE
27M_BE
FS_SEL
DGND

52 MAIN BOARD (8/12) (Page 40)
16 MAIN BOARD (3/12) (Page 35)
48 MAIN BOARD (7/12) (Page 39)
57 MAIN BOARD (10/12) (Page 42)
43 MAIN BOARD (6/12) (Page 38)
4 MAIN BOARD (1/12) (Page 33)
11 MAIN BOARD (3/12) (Page 35)
36 MAIN BOARD (5/12) (Page 37)
68 MAIN BOARD (4/12) (Page 36)

7-22. PRINTED WIRING BOARD – AUDIO BOARD (COMPONENT SIDE) –

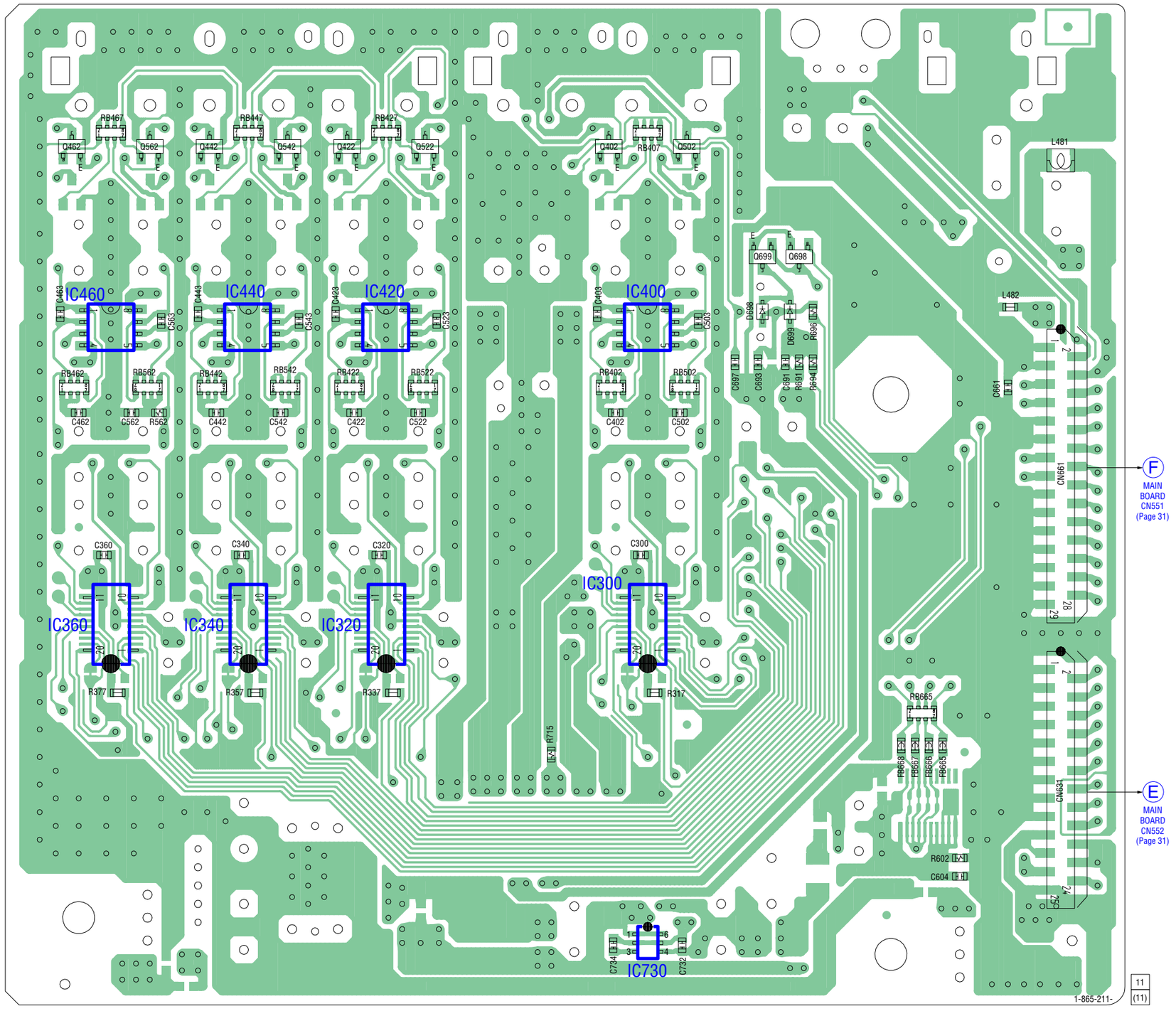
• See page 28 for Circuit Boards Location.

: Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D698	C-6
D699	C-6
IC300	E-5
IC320	E-3
IC340	E-3
IC360	E-2
IC400	C-5
IC420	C-3
IC440	C-3
IC460	C-2
IC730	H-5
Q402	B-5
Q422	B-3
Q442	B-2
Q462	B-1
Q502	B-5
Q522	B-4
Q542	B-3
Q562	B-2
Q698	C-6
Q699	C-6

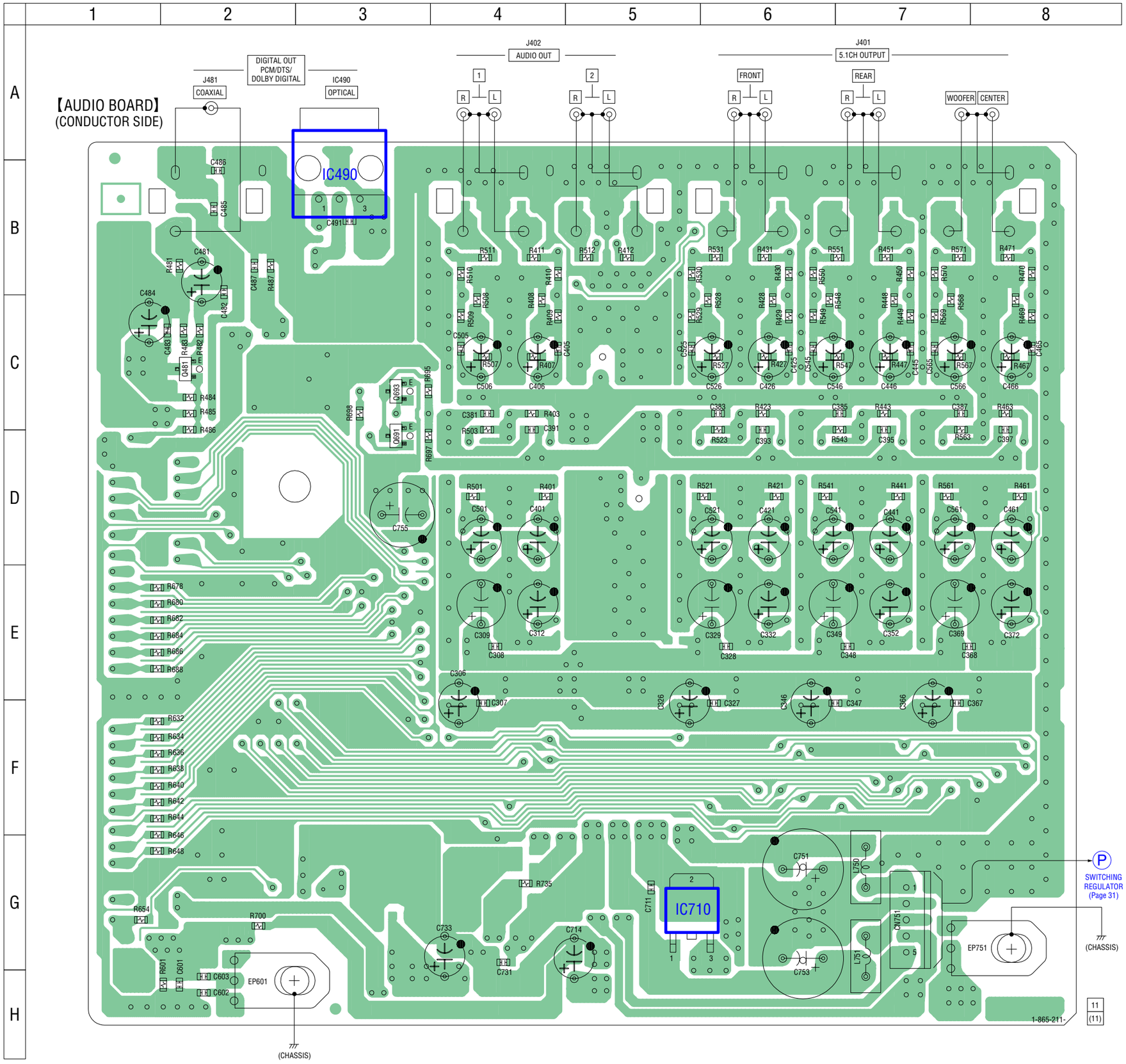
【AUDIO BOARD】(COMPONENT SIDE)



7-23. PRINTED WIRING BOARD – AUDIO BOARD (CONDUCTOR SIDE) –

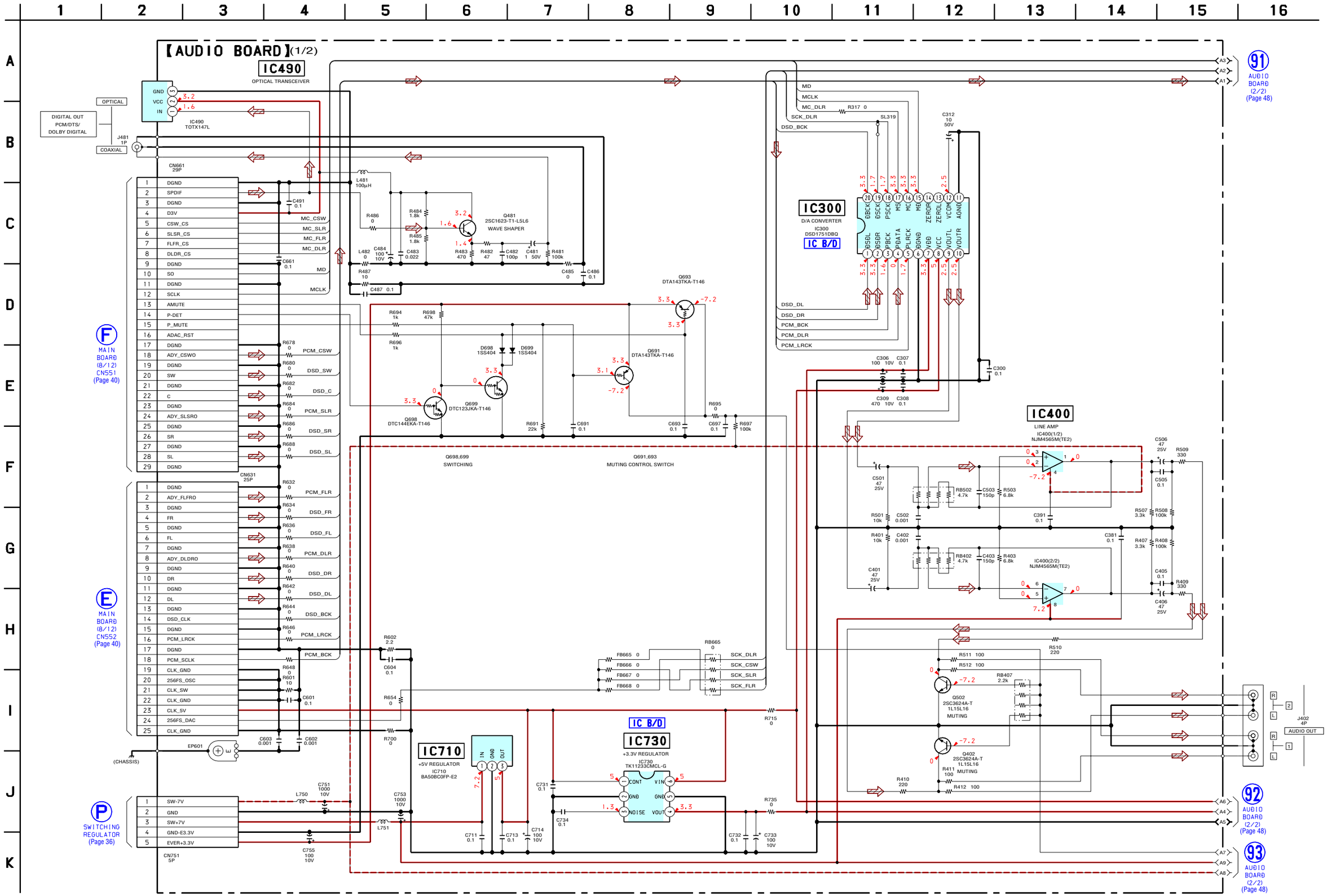
• See page 28 for Circuit Boards Location.

: Uses unleaded solder.



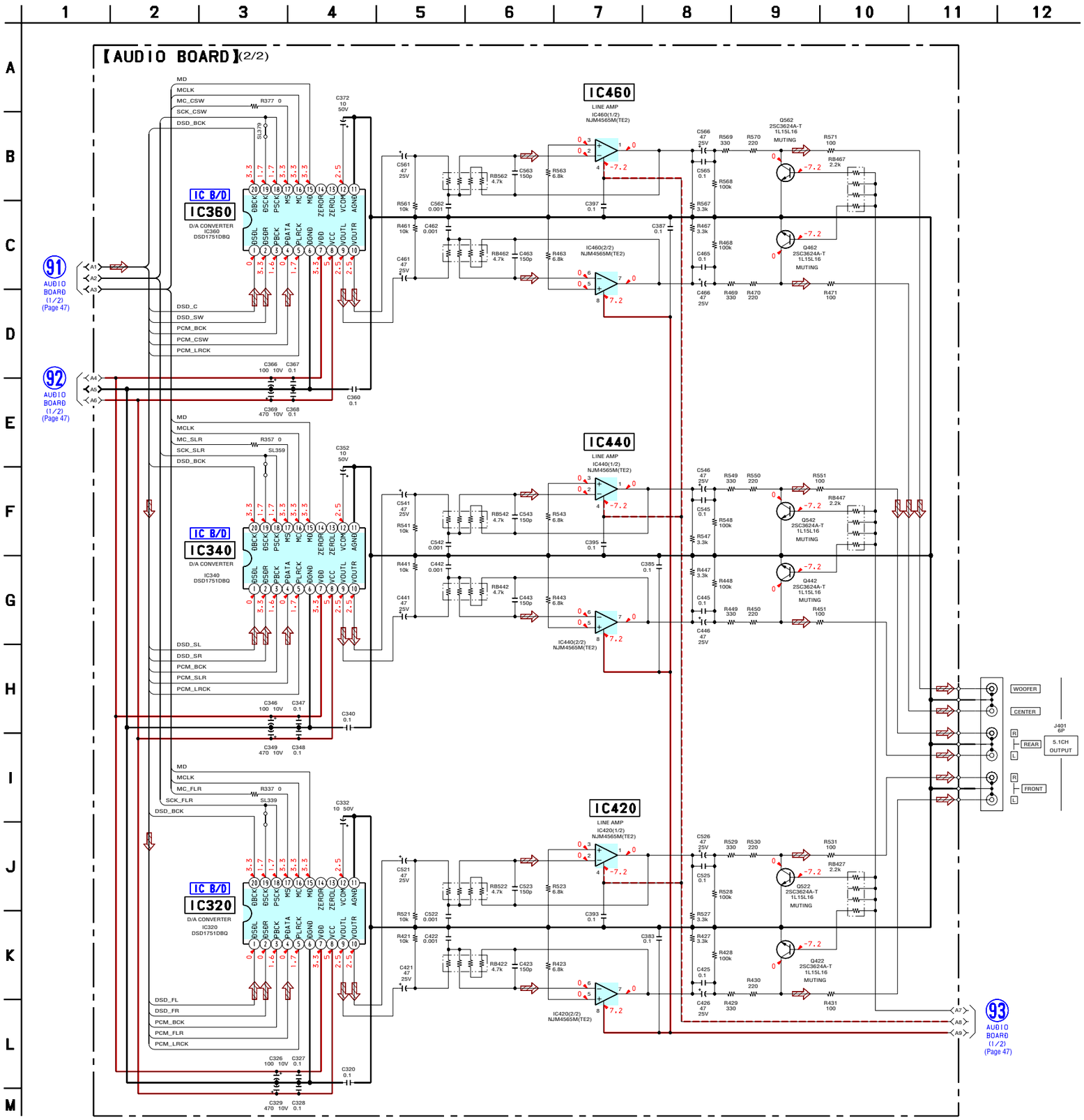
7-24. SCHEMATIC DIAGRAM – AUDIO BOARD (1/2) –

• See page 59, 60 for IC Block Diagrams.



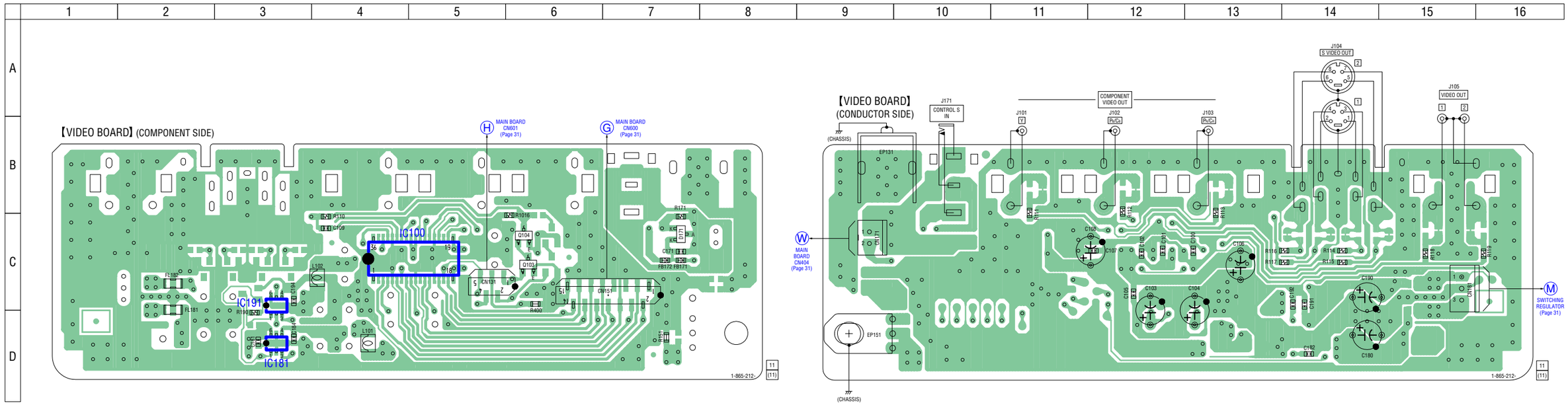
7-25. SCHEMATIC DIAGRAM – AUDIO BOARD (2/2) –

• See page 60 for IC Block Diagrams.



7-26. PRINTED WIRING BOARD – VIDEO BOARD –

• See page 28 for Circuit Boards Location. : Uses unleaded solder.

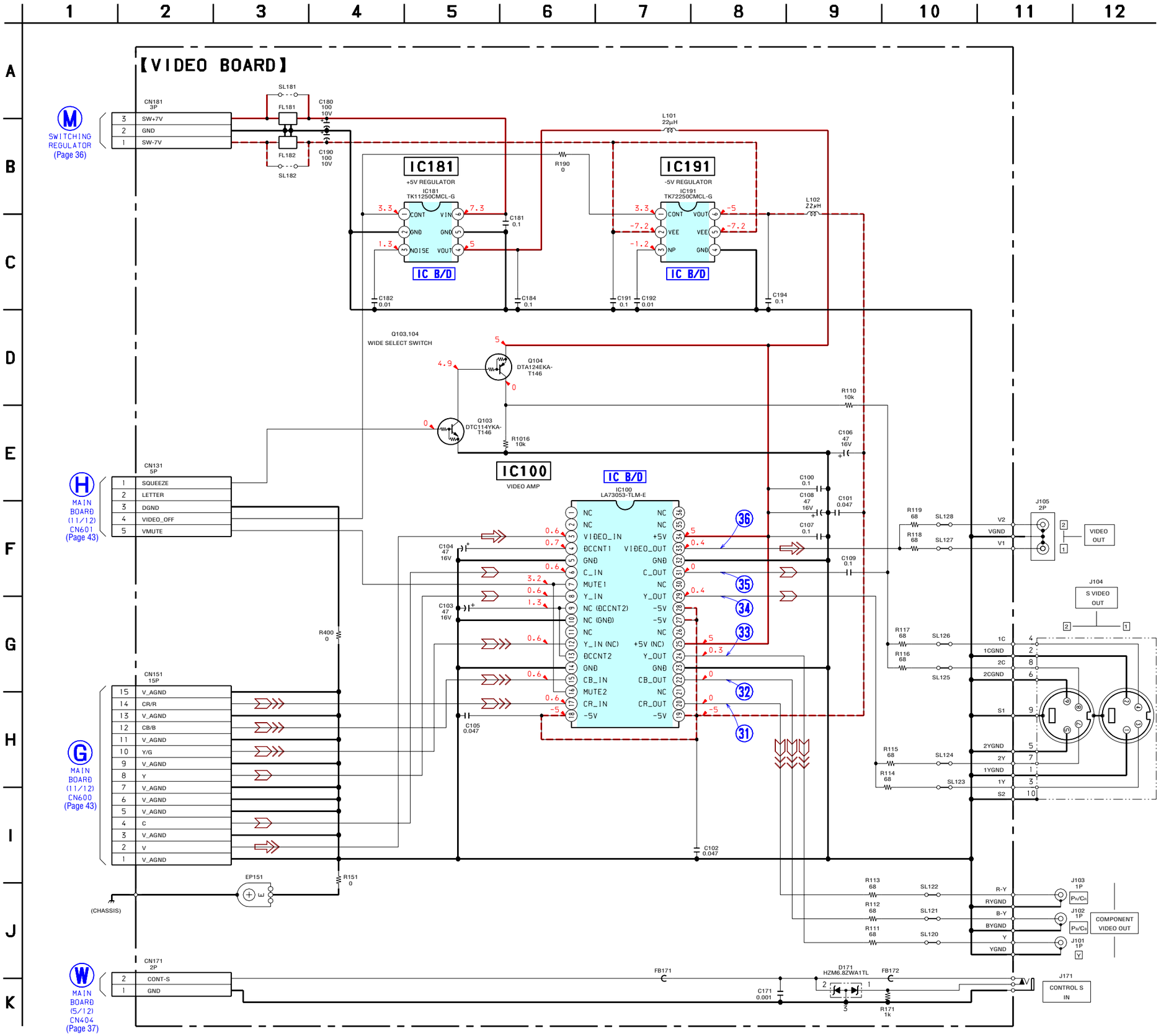


• **Semiconductor**
Location

Ref. No.	Location
D171	C-7
IC100	C-5
IC181	D-3
IC191	C-3
Q103	C-6
Q104	C-6

7-27. SCHEMATIC DIAGRAM – VIDEO BOARD –

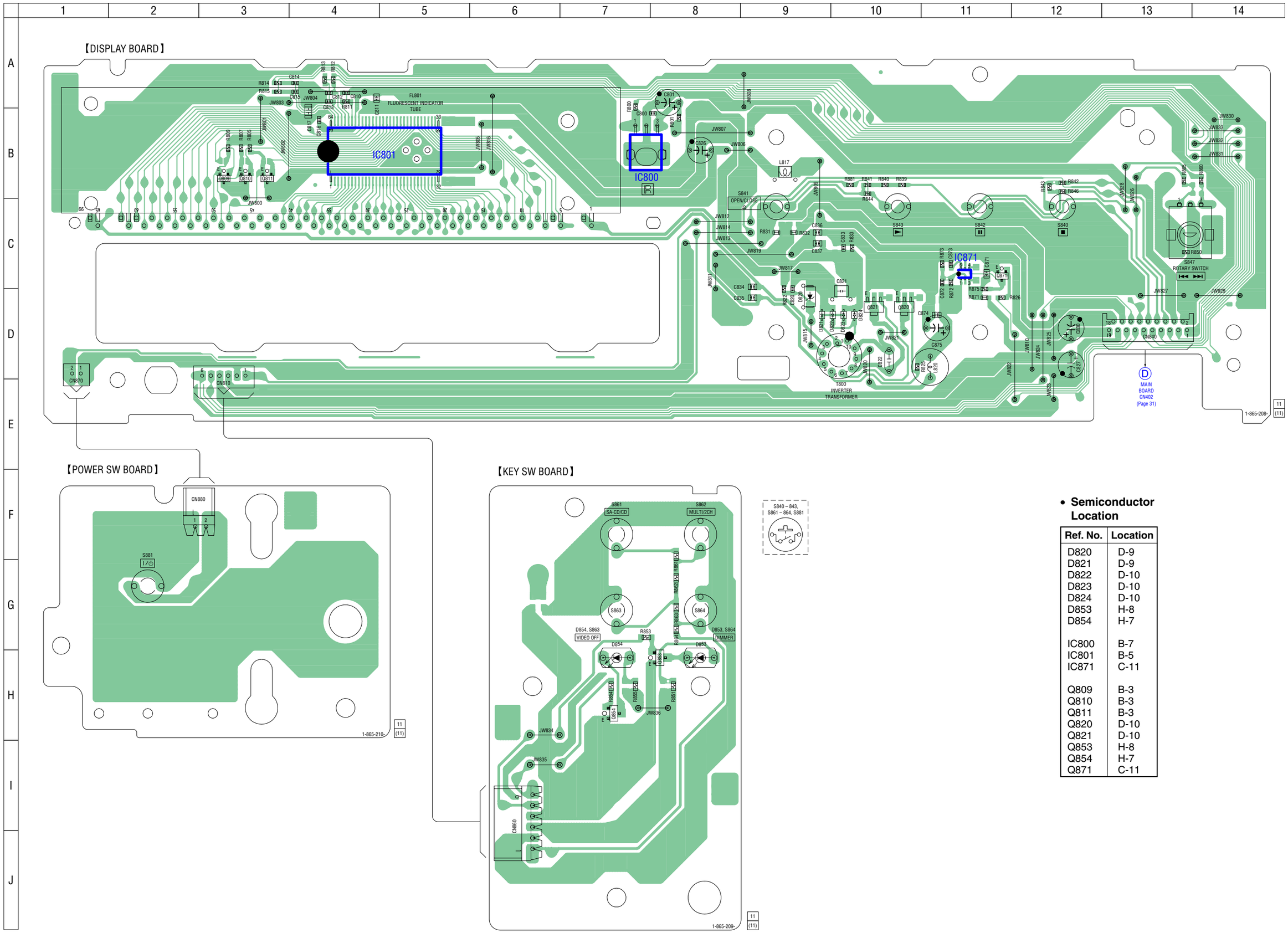
• See page 54 for Waveforms. • See page 59, 60, 61 for IC Block Diagrams.



7-28. PRINTED WIRING BOARDS – PANEL SECTION –

• See page 28 for Circuit Boards Location.

: Uses unleaded solder.

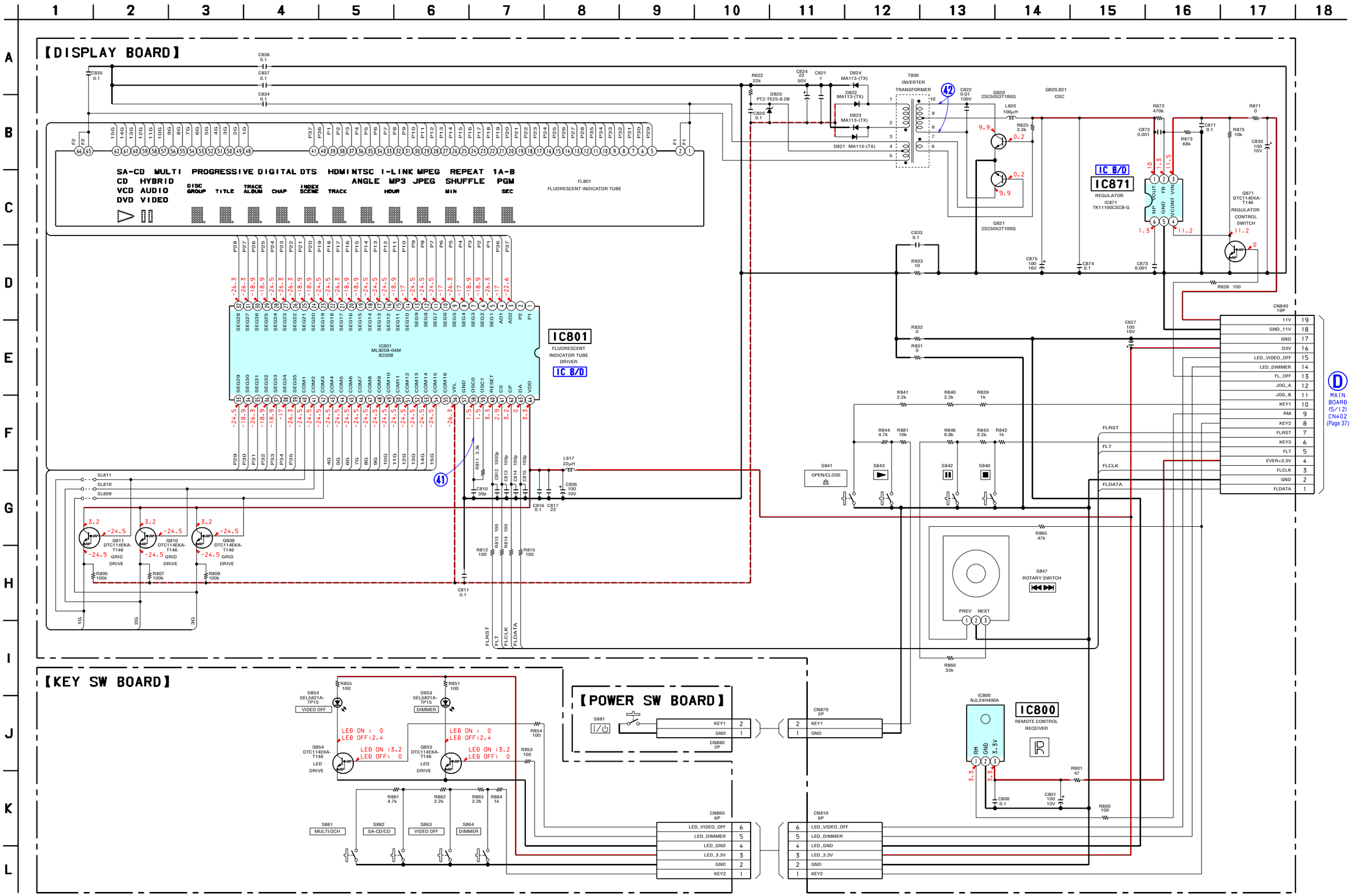


- **Semiconductor Location**

Ref. No.	Location
D820	D-9
D821	D-9
D822	D-10
D823	D-10
D824	D-10
D853	H-8
D854	H-7
IC800	B-7
IC801	B-5
IC871	C-11
Q809	B-3
Q810	B-3
Q811	B-3
Q820	D-10
Q821	D-10
Q853	H-8
Q854	H-7
Q871	C-11

7-29. SCHEMATIC DIAGRAM – PANEL SECTION –

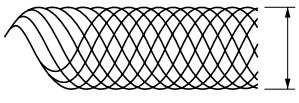
• See page 54 for Waveforms. • See page 61, 62 for IC Block Diagrams.



• **Waveforms**

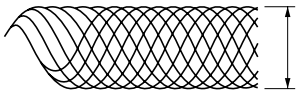
– MAIN Board –

① IC105 ④ (RFOUT) (DVD/SA-CD play mode)



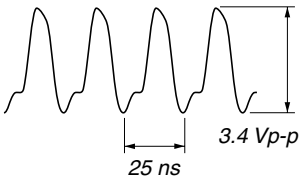
200 mV/DIV, 200 ns/DIV

① IC105 ④ (RFOUT) (CD play mode)



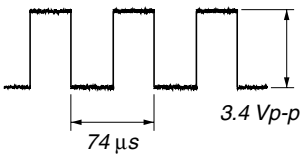
200 mV/DIV, 200 ns/DIV

② IC105 ⑥① (OUT-CLK)



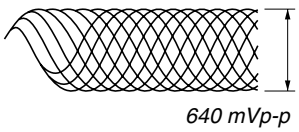
1 V/DIV, 10 ns/DIV

③ IC105 ⑥③ (OUT-DVALID)



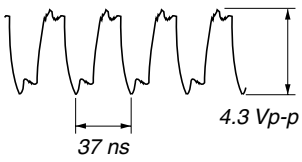
1 V/DIV, 20 µs/DIV

④ IC105 ⑨⑨ (RFSACD) (SA-CD play mode)



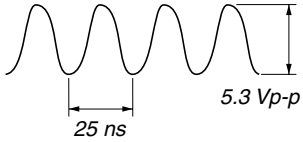
200 mV/DIV, 200 ns/DIV

⑤ IC256 ③ (YC_CLKOUT)



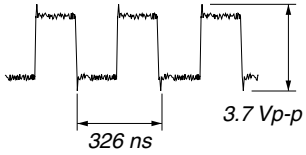
2 V/DIV, 20 ns/DIV

⑥ IC256 ⑦ (I2S_BCLK_OUT)



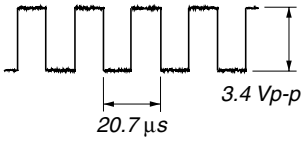
2 V/DIV, 10 ns/DIV

⑦ IC256 ⑤① (DAC-SCLK)



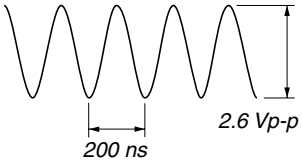
2 V/DIV, 100 ns/DIV

⑧ IC256 ⑤⑥ (DAC-LRCK)



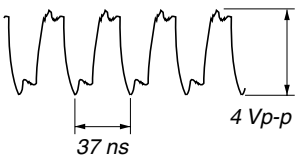
2 V/DIV, 10 µs/DIV

⑨ IC404 ⑮ (XTO)



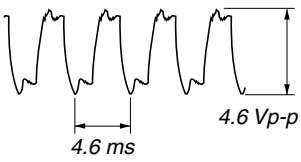
1 V/DIV, 100 ns/DIV

⑩ IC603 ⑤⑨ (CLKO)



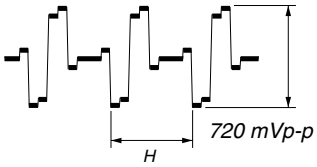
2 V/DIV, 20 ns/DIV

⑪ IC603 ⑭⑧ (QCLK)



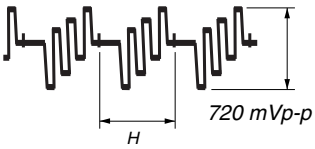
2 V/DIV, 2 ms/DIV

⑫ IC606 ③⑦ (CR/R) (Color bar)



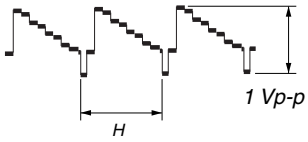
200 mV/DIV, 20 µs/DIV

⑬ IC606 ③⑧ (CB/B) (Color bar)



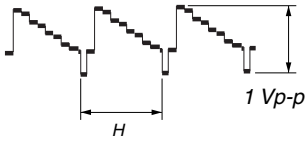
200 mV/DIV, 50 µs/DIV

⑭ IC606 ③⑨ (Y/G) (Color bar)



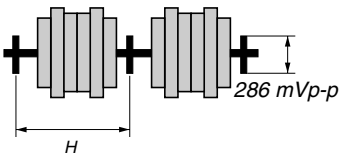
500 mV/DIV, 20 µs/DIV

⑮ IC606 ④② (Y) (Color bar)



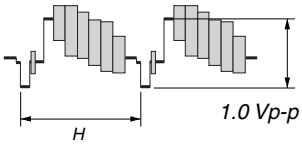
500 mV/DIV, 20 µs/DIV

⑯ IC606 ④③ (C) (Color bar)



500 mV/DIV, 20 µs/DIV

⑰ IC606 ④④ (V) (Color bar)

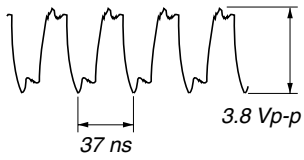


500 mV/DIV, 20 µs/DIV

– VIDEO Board –

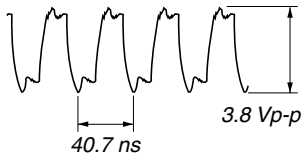
– DISPLAY Board –

㉔ IC911 ③ (MO1), ④ (MO2)



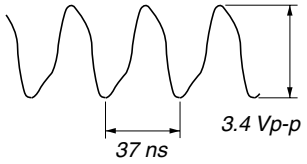
2 V/DIV, 20 ns/DIV

㉕ IC911 ⑨ (AO1)



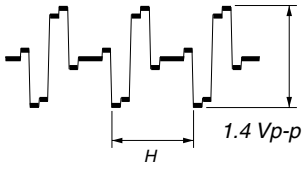
2 V/DIV, 20 ns/DIV

㉖ IC911 ⑧ (XTO)



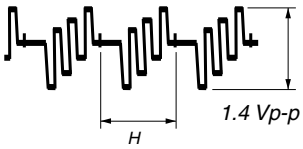
1 V/DIV, 20 ns/DIV

㉛ IC100 ⑳ (CR_OUT) (Color bar)



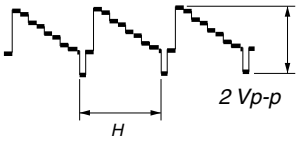
500 mV/DIV, 20 µs/DIV

㉜ IC100 ㉒ (CB_OUT) (Color bar)



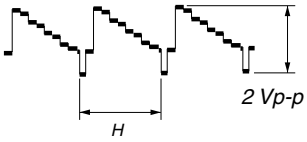
500 mV/DIV, 20 µs/DIV

㉝ IC100 ㉔ (Y_OUT) (Color bar)



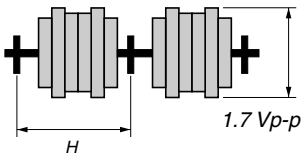
1 V/DIV, 20 µs/DIV

㉞ IC100 ㉙ (Y_OUT) (Color bar)



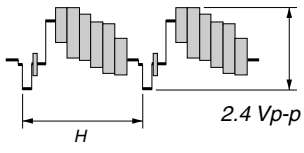
1 V/DIV, 20 µs/DIV

㉟ IC100 ㉛ (C_OUT) (Color bar)



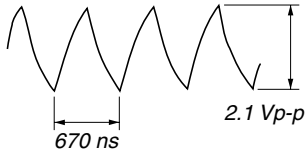
500 mV/DIV, 20 µs/DIV

㊱ IC100 ㉝ (VIDEO_OUT) (Color bar)



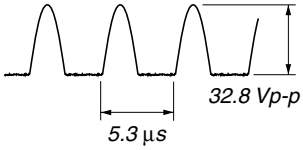
1 V/DIV, 20 µs/DIV

㊶ IC801 ㊽ (OSC0)



1 V/DIV, 500 ns/DIV

㊷ Q820, 821 (Collector)

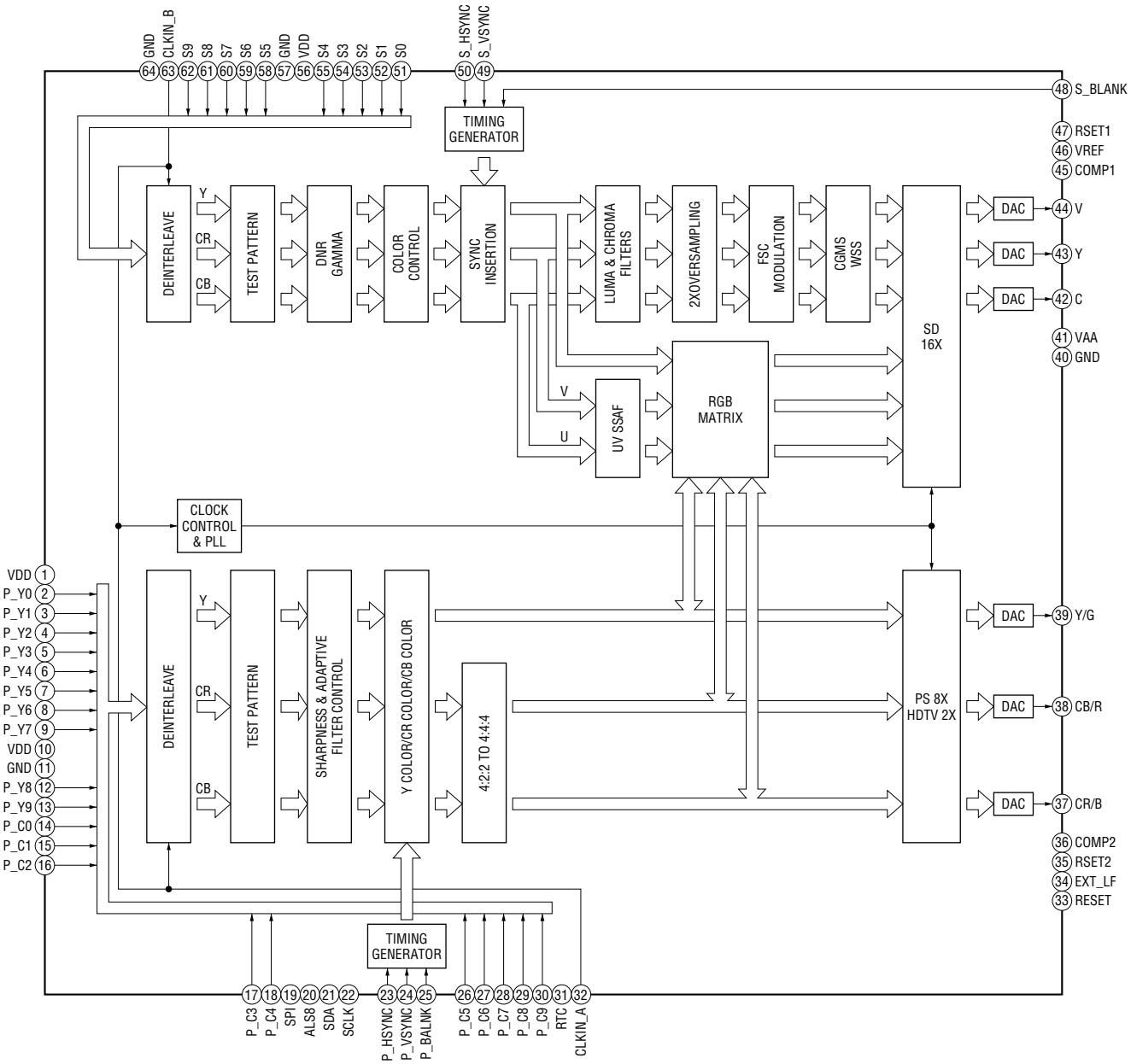


20 V/DIV, 2 µs/DIV

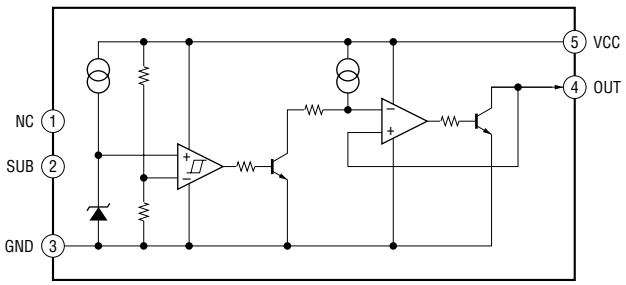
- **IC Block Diagrams**

– MAIN Board –

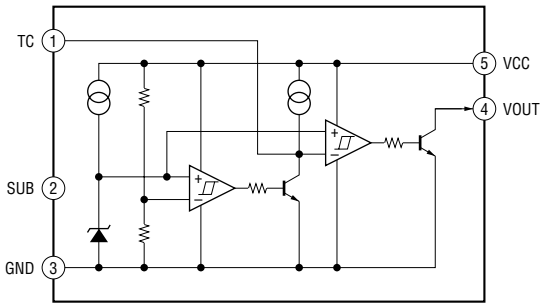
IC606 ADV7310KST



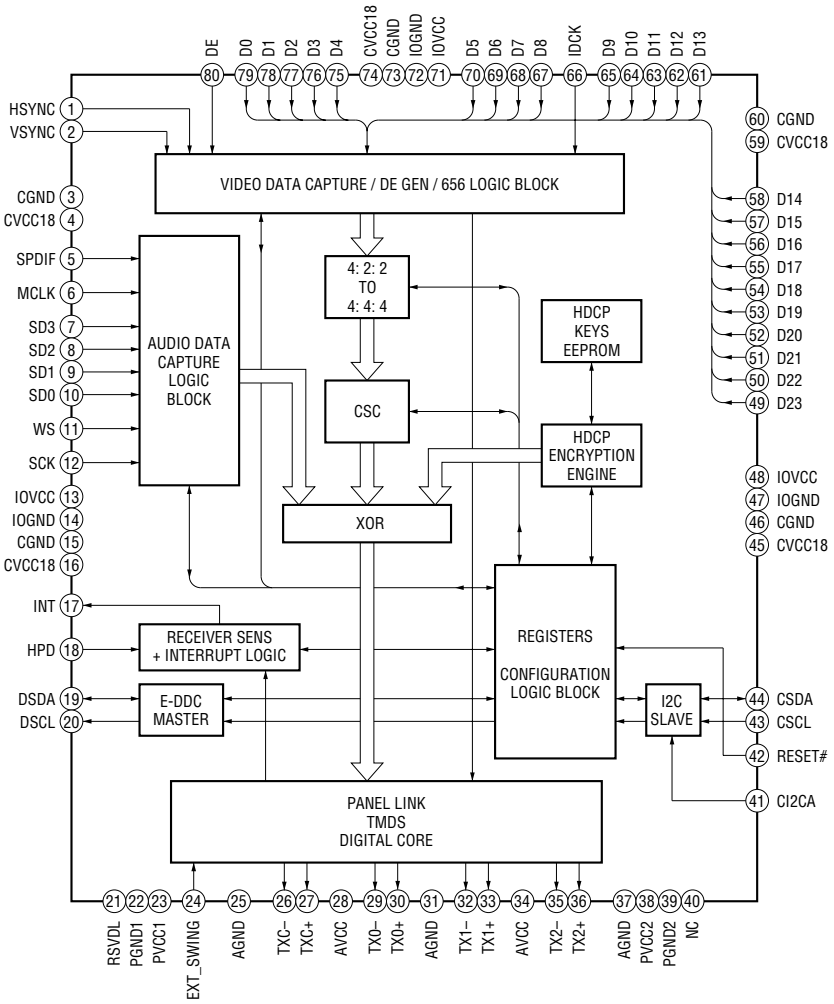
IC405 PST9127NL



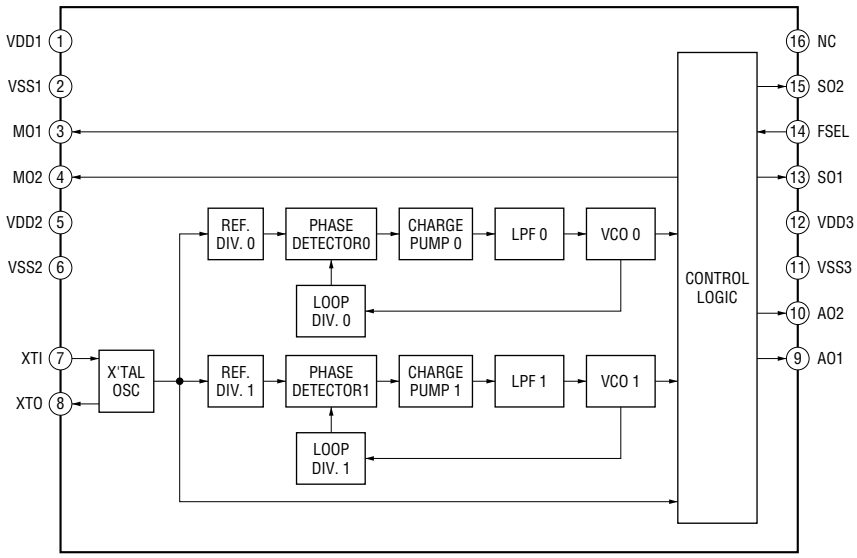
IC406 PST9228NL



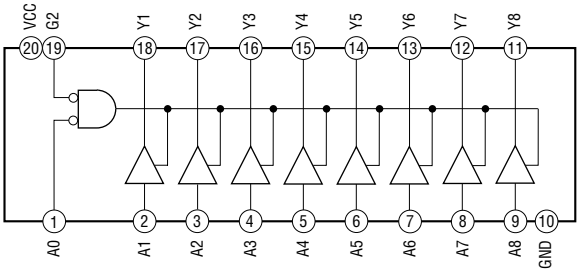
IC607 SII9030CTU-1.1



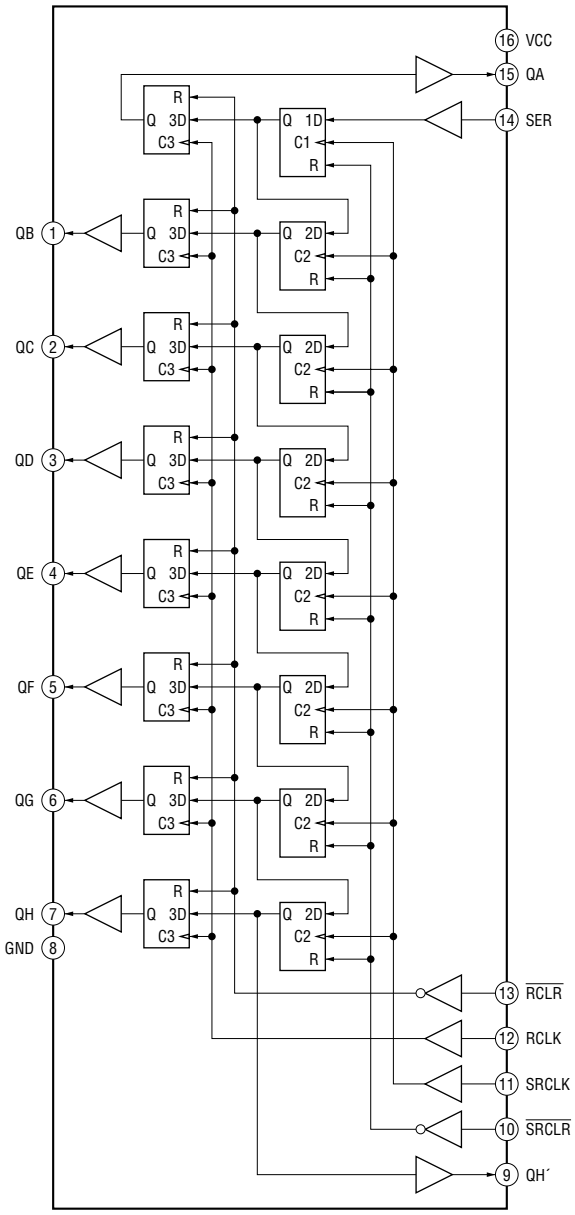
IC911 SM8707EV-G-E2



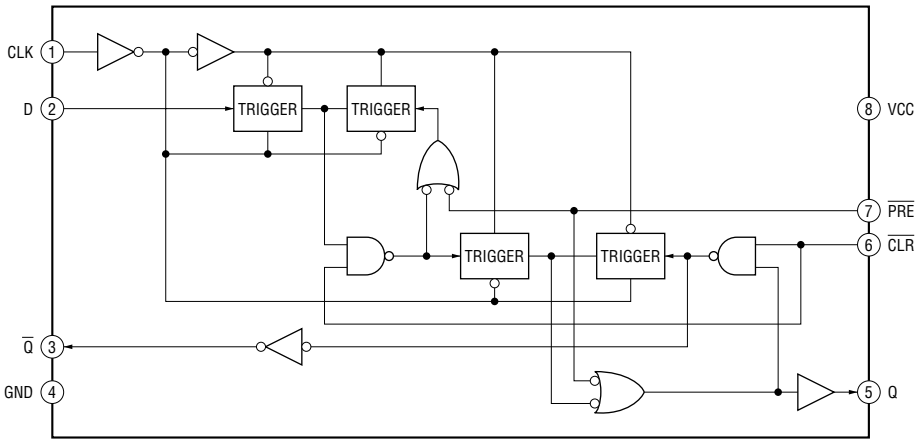
IC504 SN74LV541APWR
IC554 SN74LV541APWR
IC556 SN74LV541APWR
IC921 SN74LV541APWR



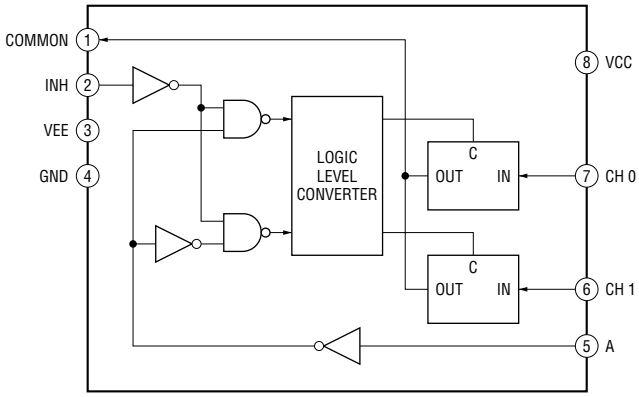
IC257 SN74LV594APWR



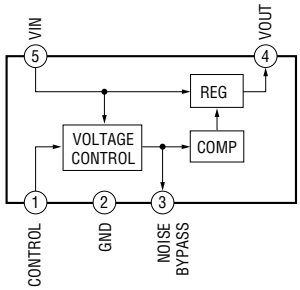
IC915 SN74LVC2G74DCUR



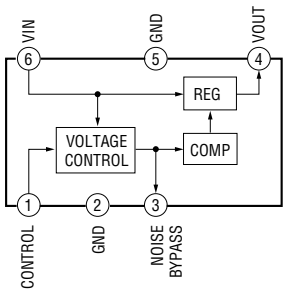
IC402 TC7W53FU (TE12R)



IC218 TK11118CSCL-G
IC308 TK11118CSCL-G
IC508 TK11118CSCL-G
IC518 TK11118CSCL-G
IC628 TK11118CSCL-G
IC718 TK11118CSCL-G
IC623 TK11133CSCL-G
IC643 TK11133CSCL-G
IC723 TK11133CSCL-G
IC733 TK11133CSCL-G
IC650 TK11150CSCL-G
IC725 TK11125CSCL-G
IC933 TK11134CSCL-G

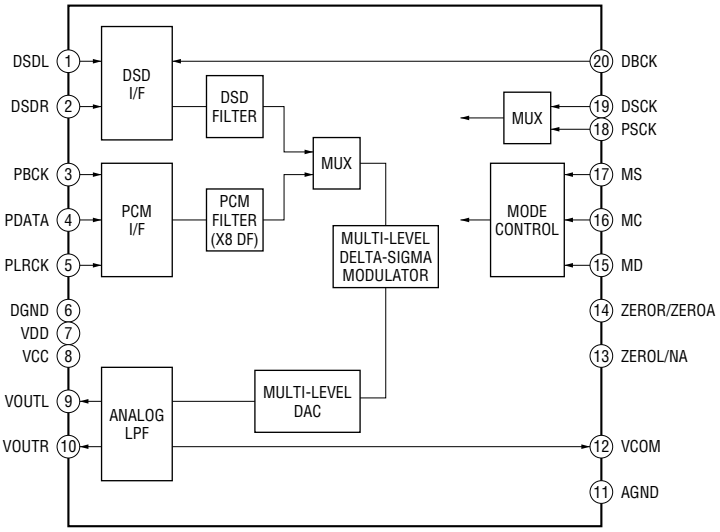


IC118 TK11218CMCL-G
IC618 TK11218CMCL-G
IC150 TK11250CMCL-G
IC233 TK11233CMCL-G
IC625 TK11225CMCL-G

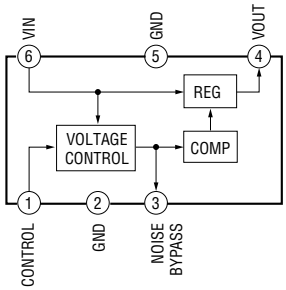


– AUDIO Board –

IC300 DSD1751DBQR
IC320 DSD1751DBQR
IC340 DSD1751DBQR
IC360 DSD1751DBQR

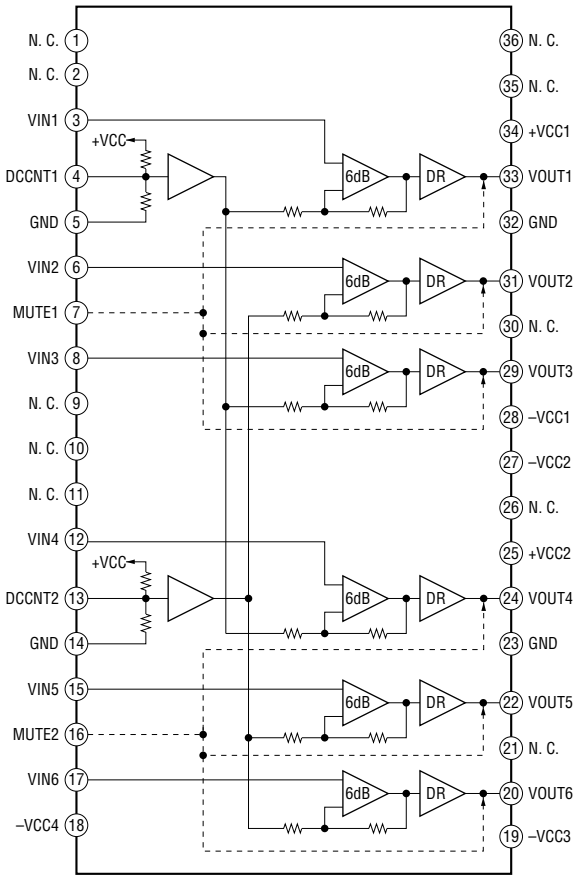


IC730 TK11233CMCL-G

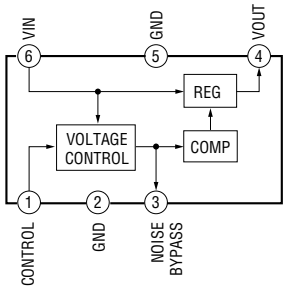


– VIDEO Board –

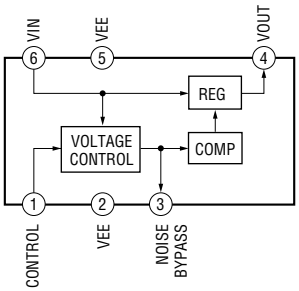
IC100 LA73053-TLM-E



IC181 TK11250CMCL-G

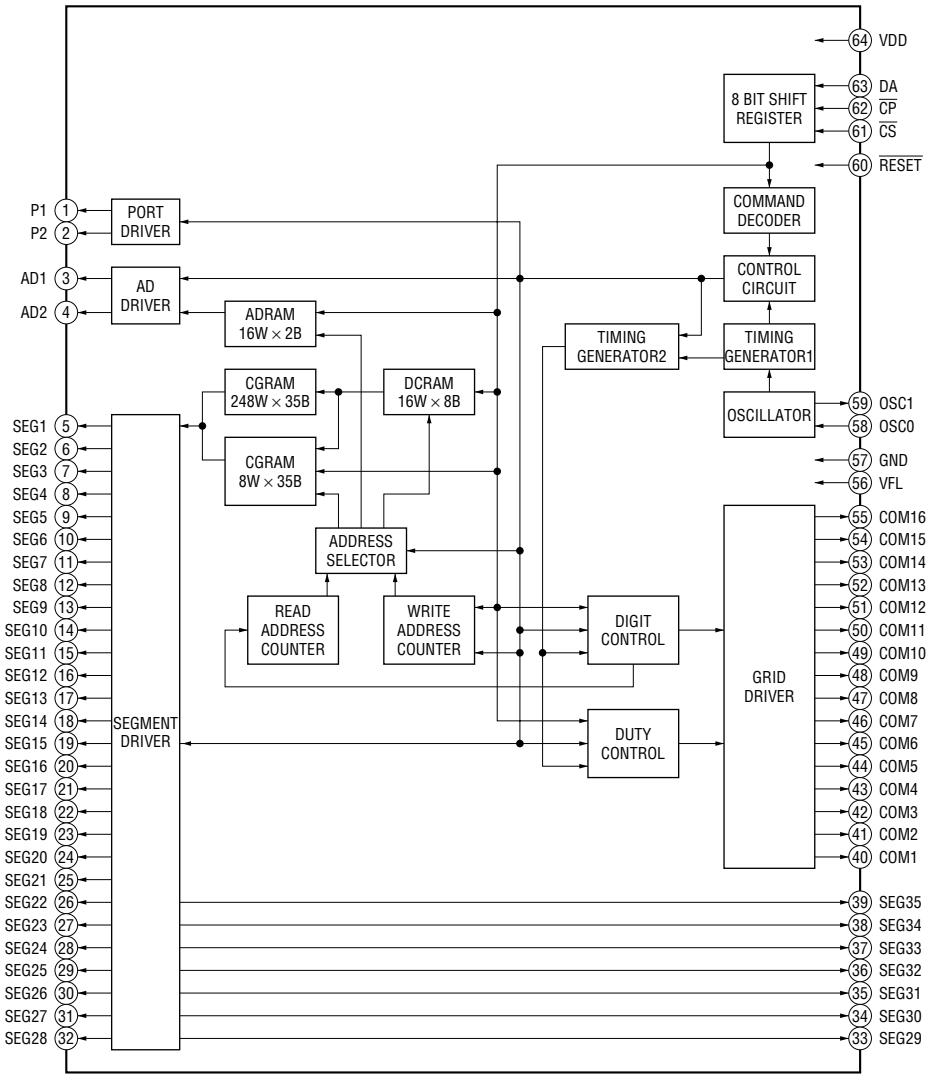


IC191 TK72250CMCL-G

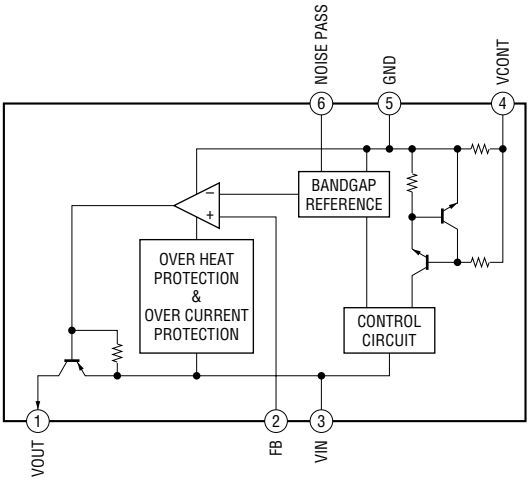


– DISPLAY Board –

IC801 ML9208-04MBZ03B



IC871 TK11100CSCB-G



• **IC Pin Function Description**

MAIN BOARD IC105 STE6317ATXXY (DVD INTERFACE)

Pin No.	Pin Name	I/O	Description
1	IREF	I	Connected to the ground
2	GNDAI	-	Ground terminal (analog system)
3	RFIN	I	RF path data input terminal (after AC coupling)
4	RFOUT	O	RF path data output terminal (before AC coupling)
5	VCC18	-	Power supply terminal (+1.8V) (analog system)
6	A	I	A signal input from the optical traverse unit
7	GNDMN	-	Ground terminal (analog system)
8	B	I	B signal input from the optical traverse unit
9	VCC33MN	-	Power supply terminal (+3.3V) (analog system)
10	REFD	O	Reference voltage output to the optical traverse unit (+2.1V) (for laser diode)
11	VCC18MN	-	Power supply terminal (+1.8V) (analog system)
12	D	I	D signal input from the optical traverse unit
13	VCC18IS	-	Power supply terminal (+1.8V) (analog system)
14	C	I	C signal input from the optical traverse unit
15	VCC33IS	-	Power supply terminal (+3.3V) (analog system)
16	GNDAIS	-	Ground terminal (analog system)
17	VCC33SD	-	Power supply terminal (+3.3V) (analog system)
18	VCC18SD	-	Power supply terminal (+1.8V) (analog system)
19	GNDSD	-	Ground terminal
20	F	I	F signal input from the optical traverse unit
21	E	I	E signal input from the optical traverse unit
22	VSHIELDIS	-	Ground terminal (analog system)
23	VCC18ADC	-	Power supply terminal (+1.8V) (analog system)
24	GNDADC	-	Ground terminal (analog system)
25	VSHIELDADC	-	Ground terminal (analog system)
26	VCC33ADC	-	Power supply terminal (+3.3V) (analog system)
27	GNDDAC	-	Ground terminal (analog system)
28	DISC	O	Sled motor drive signal output terminal
29	SLED	O	Sled motor drive signal output terminal
30	REFEXT	I	Connected to the ground
31	REFGND	-	Ground terminal
32	REF	O	Reference voltage output terminal (+2.7V) (for D/A converter)
33	FACT	O	Focus coil drive signal output terminal
34	TACT	O	Tracking coil drive signal output terminal
35	VCC18DAC	-	Power supply terminal (+1.8V) (analog system)
36	MUTE_SP	O	Muting on/off control signal output to the spindle motor driver “L”: muting on
37	MUTE_DRV	O	Muting on/off control signal output to the focus/tracking coil driver and sled motor driver “L”: muting on
38, 39	FIN, RIN	O	Loading motor drive signal output terminal “L”: motor off Not used
40	INSW	I	Disc tray close detection signal input terminal “L”: Disc tray is closedFixed at “L” in this set
41	VSS	-	Ground terminal (digital system)
42	VDD33	-	Power supply terminal (+3.3V) (digital system)
43	DVD/CD	O	DVD/CD selection signal output to the optical traverse unit “L”: CD, “H”: DVD
44	SP	O	Spindle motor drive PWM signal output terminal
45	INLIM	I	Limit in detection signal input from the optical traverse unitThe optical pick-up is inner position when “H”

Pin No.	Pin Name	I/O	Description
46	OUTSW	I	Disc tray open detection signal input terminal "H": Disc tray is closedFixed at "H" in this set
47	DGND	-	Ground terminal (digital system)
48	VDD18	-	Power supply terminal (+1.8V) (digital system)
49, 50	PD (6), PD (5)	O	Internal signal monitor output terminal Not used
51	DSPCLK	O	Internal signal monitor output terminal Not used
52	DSPDAT	O	Internal signal monitor output terminal Not used
53	DSPSTRB	O	Internal signal monitor output terminal Not used
54, 55	PD (1), PD (0)	O	Internal PDM signal monitor output terminal Not used
56	VSS	-	Ground terminal (digital system)
57	VDD33	-	Power supply terminal (+3.3V) (digital system)
58	OUT-ERR	O	Error signal output to the CPU
59	OUT-EVALID	O	Word clock signal output to the CPU
60	VSS	-	Ground terminal (digital system)
61	OUT-CLK	O	Bit clock signal output to the CPU
62	VDD18	-	Power supply terminal (+1.8V) (digital system)
63	OUT-DVALID	O	PCLK signal output to the CPU
64	OUT-DATA	O	Serial audio/video data output to the CPU
65	OUT-SYNC	O	Error signal and V4 signal output to the CPU
66	SCL	I	I2C bus clock signal input from the CPU
67	SDA	I/O	I2C two-way data bus with the CPU, interlace/progressive converter and video decoder
68, 69	PE (3), PE (2)	-	Not used
70	SPDIR	I	Spindle motor rotation direction detection signal input from spindle motor driver "L": reverse direction, "H": forward direction
71	IRQ_FE	O	Interrupt request signal output to the CPU
72	VSS	-	Ground terminal (digital system)
73	VDD33	-	Power supply terminal (+3.3V) (digital system)
74	PF (1)	O	Internal signal monitor output terminal Not used
75	DSPSTRB2	O	Internal signal monitor output terminal Not used
76	VSS	-	Ground terminal (digital system)
77	VDD18	-	Power supply terminal (+1.8V) (digital system)
78	PG (1)	I	Boot mode selection mode signal input terminal "L": standalone mode, "H": EMU modeFixed at "L" in this set
79	PG (0)	I	Boot mode selection mode signal input terminal "H": standalone/EMU mode Fixed at "H" in this set
80	TEST	I	Input terminal for the test
81	RESET-N	I	Reset signal input from the CPU "L": reset
82	VSSADC	-	Ground terminal (analog system)
83	VDD18ADC	-	Power supply terminal (+1.8V) (analog system)
84	GNDPLL	-	Ground terminal (analog system)
85	CKOUT	-	Not used
86	FREOUT	-	Not used
87	FREIN	I	27 MHz clock signal input from clock generator
88	VCC18PLL	-	Power supply terminal (+1.8V) (analog system)
89	LD1	O	Laser diode control signal (for DVD) output terminal
90	LD2	O	Laser diode control signal (for CD) output terminal
91	VCCA33	-	Power supply terminal (+3.3V) (analog system)
92	TWINSEL	I	Connected to the ground
93, 94	LMD1, LMD2	I	Laser diode monitor input from the optical traverse unit

Pin No.	Pin Name	I/O	Description
95	GNDL	-	Ground terminal (analog system)
96	TST-PM	O	Output terminal for the analog test
97	TST-SLICE	O	Output terminal for the analog test
98	TST-ADC	I	Not used
99	RFSACD	O	RF (for SACD) signal output to the SACD media player
100	VBGFILT	I	Connected to the ground through the capacitor

MAIN BOARD IC256 STE5588CVB (CPU)

Pin No.	Pin Name	I/O	Description
1	FUR_RST	O	Reset signal output to the SACD media player "L": reset
2	DAC-PCMOUT3	O	PCM audio data (for down mix) output to the lip sync adjust
3	YC_CLKOUT	O	27 MHz clock signal output to the interlace/progressive converter
4	VDD3-3	-	Power supply terminal (+3.3V)
5	VSS	-	Ground terminal
6	I2S_DATA_OUT	O	I2S bus data output to the SACD media player
7	I2S_BCLK_OUT	O	I2S bus clock signal output to the SACD media player
8	I2S_BFLAG_OUT	O	I2S bus flag output to the SACD media player
9	VIDEO_RST	O	Reset signal output to the interlace/progressive converter, video encoder and HDMI transmitter "L": reset
10	RTS	I	UART flow control signal input terminal
11	BE_BUSY	O	Busy signal output to the system controller
12	CTS	O	UART flow control signal output terminal
13	BE_CS	I	Chip select signal input from the system controller
14	VDD1-8	-	Power supply terminal (+1.8V)
15	VSS	-	Ground terminal
16	B-DATA	I	Serial audio/video data input from the DVD interface
17	B-BCLK	I	Bit clock signal input from the DVD interface
18	B-FLAG	I	PCLK signal input from the DVD interface
19	B-SYNC	I	Error signal input from the DVD interface
20	WCLK	I	Word clock signal input from the DVD interface
21	B-V4	I	V4 signal input from the DVD interface
22	XRCLR	O	Clear signal output to the shift resister
23	VDD-RGB	-	Power supply terminal Not used
24	VSS-RGB	-	Ground terminal
25	B-OUT	O	RGB (blue) signal output terminal Not used
26	G-OUT	O	RGB (green) signal output terminal Not used
27	R-OUT	O	RGB (red) signal output terminal Not used
28	V-REF-RG	-	Reference voltage terminal
29	I-REF-RG	-	Reference current terminal
30	VDD-YCC	-	Power supply terminal Not used
31	VSS-YCC	-	Ground terminal
32	Y-OUT	O	Y signal output terminal Not used
33	C-OUT	O	Chroma signal output terminal Not used
34	VC-OUT	O	Component video signal output terminal Not used
35	V-REF-YC	-	Reference voltage terminal
36	I-REF-YC	-	Reference current terminal
37	VDD1-8	-	Power supply terminal (+1.8V)
38	VSS	-	Ground terminal
39 to 46	YC0 to YC 7	O	Digital video signal output to the interlace/progressive converter
47	VDD3-3	-	Power supply terminal (+3.3V)
48	VDD-PCM	-	Power supply terminal (+1.8V)
49	VSS-PCM	-	Ground terminal
50	VSS	-	Ground terminal
51	DAC-SCLK	O	Bit clock signal output to the D/A converter, lip sync adjust and HDMI transmitter
52	DAC-PCMOUT0	O	PCM audio data (for front) output to the lip sync adjust
53	DAC-PCMOUT1	O	PCM audio data (for rear) output to the lip sync adjust
54	DAC-PCMOUT2	O	PCM audio data (for center and woofer) output to the lip sync adjust
55	DAC-PCMCLK	I	Master clock signal input from the clock generator

Pin No.	Pin Name	I/O	Description
56	DAC-LRCLK	O	L/R sampling clock signal output to the D/A converter, lip sync adjust and HDMI transmitter
57	SPDIF-OUT	O	Digital audio data output to the lip sync adjust
58 to 63	SMI-ADR (4) to SMI-ADR (9)	O	Address signal output to the SD-RAM
64	VDD1-8	-	Power supply terminal (+1.8V)
65	VSS	-	Ground terminal
66 to 69	SMI-ADR (3) to SMI-ADR (0)	O	Address signal output to the SD-RAM
70 to 73	SMI-ADR (10) to SMI-ADR (13)	O	Address signal output to the SD-RAM
74	SMI-CS (0)	O	Chip select signal output to the SD-RAM
75	SMI-CS (1)	O	Chip select signal output terminal Not used
76	SMI-RAS	O	Row address signal output to the SD-RAM
77	SMI-CAS	O	Column address signal output to the SD-RAM
78	SMI-WE	O	Write enable signal output to the SD-RAM
79	SMI-DQML	O	Write mask signal output to the SD-RAM (lower byte)
80	SMI-DQMU	O	Write mask signal output to the SD-RAM (upper byte)
81	VDD3-3	-	Power supply terminal (+3.3V)
82	SMI-CLKIN	I	133 MHz clock signal input terminal
83	VSS	-	Ground terminal
84 to 93	SMI-DATA (0) to SMI-DATA (9)	I/O	Two-way data bus with the SD-RAM
94	VDD1-8	-	Power supply terminal (+1.8V)
95	SMI-CLKOUT	O	133 MHz clock signal output to the SD-RAM
96	VSS	-	Ground terminal
97 to 102	SMI-DATA (10) to SMI-DATA (15)	I/O	Two-way data bus with the SD-RAM
103	TMODE_SW	I	Test mode on/off control signal input from the system controller “H”: test mode on
104	HDMI_+5V_CONT_BE	O	Power on/off control signal output terminal for HDMI section (+5V) Not used
105	RCLK	O	Clock signal output to the shift register
106	ADC-PCMCLK	O	PCM clock signal output terminal Not used
107	VDD3-3	-	Power supply terminal (+3.3V)
108	VSS	-	Ground terminal
109	TRST	I	Reset signal input terminal (for JTAG)
110	TMS	I	Mode selection signal input terminal (for JTAG)
111	TDO	O	Data output terminal (for JTAG)
112	TDI	I	Data input terminal (for JTAG)
113	TCK	I	Clock signal input terminal (for JTAG)
114	ADY_BYPASS	O	Bypass signal output terminal Not used
115	BOOT_MODE	O	Boot mode selection signal output terminal Not used
116	WP	O	Write protect signal output terminal Not used
117	CPU-OE	O	Output enable signal output to the flash memories
118	CPU-PROCLK	O	Not used
119	VDD1-8	-	Power supply terminal (+1.8V)
120	PIX-CLK	I	27 MHz clock signal input from the clock generator
121	VSS	-	Ground terminal
122	VDD-PLL	-	Power supply terminal (+1.8V)
123	VSS-PLL	-	Ground terminal

Pin No.	Pin Name	I/O	Description
124	RESET	I	Reset signal input from the system controller "L": reset
125	IRQ (2)	I	Interrupt request signal input from the SACD media player
126	IRQ (1)	I	Interrupt request signal input from the HDMI transmitter
127	IRQ (0)	I	Interrupt request signal input from the DVD interface
128	CPU-BE (0)	O	Write enable signal output to the flash memories
129	CPU-BE (1)	O	Write enable signal output terminal Not used
130	CPU-RW	O	Read/write selection signal output to the SACD media player "L": read, "H": write
131	CPU-WAIT	I	Chip wait signal input from the SACD media player
132	CPU-CE (3)	O	Chip enable signal output to the flash memory
133	CPU-CE (2)	O	Chip select signal output to the SACD media player
134	CPU-CE (1)	O	Chip enable signal output to the flash memory
135	CPU-CE (0)	O	Chip select signal output terminal Not used
136	VDD3-3	-	Power supply terminal (+3.3V)
137	VSS	-	Ground terminal
138	CPU-RAS1	O	Row address signal output terminal Not used
139, 140	CPU-CAS0,CPU-CAS1	O	Column address signal output terminal Not used
141 to 144	CPU-DATA (0) to CPU-DATA (3)	I/O	Two-way data bus with the flash memories and SACD media player
145 to 148	CPU-DATA (4) to CPU-DATA (7)	I/O	Two-way data bus with the flash memories and SACD media player
149	VDD1-8	-	Power supply terminal (+1.8V)
150	VSS	-	Ground terminal
151 to 158	CPU-DATA (8) to CPU-DATA (15)	I/O	Two-way data bus with the flash memories and SACD media player
159	VDD3-3	-	Power supply terminal (+3.3V)
160	VSS	-	Ground terminal
161 to 164	CPU-ADR (1) to CPU-ADR (4)	O	Address signal output to the flash memories and SACD media player
165 to 167	CPU-ADR (5) to CPU-ADR (7)	O	Address signal output to the flash memories and SACD media player
168 to 170	CPU-ADR (8) to	O	Address signal output to the flash memories
	CPU-ADR (10)		
171	VDD1-8	-	Power supply terminal (+1.8V)
172	VSS	-	Ground terminal
173 to 183	CPU-ADR (11) to CPU-ADR (21)	O	Address signal output to the flash memories
184	VDD3-3	-	Power supply terminal (+3.3V)
185	VSS	-	Ground terminal
186	FE_RST	O	Reset signal output to the DVD interface "L": reset
187	RSERROR	I	Error signal input from the DVD interface
188	A_MUTE	O	Audio muting on/off control signal output terminal "L": muting on
189	LETTER	O	Letter box control signal output terminal Not used
190	H_SCL_BP	O	I2C bus clock signal output terminal Not used
191	SQUEEZE	O	Squeeze control signal output terminal
192	H_SDA_BP	I/O	I2C two-way data bus terminal Not used
193	I2S_SYNC_OUT	O	Sector sync signal or absolute time sync signal output to the SACD media player
194	BE_SDA	I/O	I2C two-way data bus with the DVD interface, interlace/progressive converter and video encoder

Pin No.	Pin Name	I/O	Description
195	BE_SCL	O	I2C bus clock signal output to the DVD interface, interlace/progressive converter and video encoder
196	I2S_WCLK_OUT	O	I2S bus word clock signal output to the SACD media player
197	IF_TXD	O	UART transmit data output to the system controller
198	VDD1-8	-	Power supply terminal (+1.8V)
199	VSS	-	Ground terminal
200	IF_RXD	I	UART receive data input from the system controller
201	FCNG_TXD	O	UART transmit data output for data writing to the flash memory
202	TRIGGER-IN	I	Trigger signal input terminal
203	TRIGGER-OUT	O	Trigger signal output terminal
204	ADAC_RESET	O	Reset signal output terminal Not used
205	FCNG_RXD	I	UART receive data input for data writing to the flash memory
206	SI	I	Serial data input from the lip sync adjust
207	SO	O	Serial data output to the D/A converter, shift register and lip sync adjust
208	SCLK	O	Serial data transfer clock signal output to the D/A converter, shift register and lip sync adjust

MAIN BOARD IC404 uPD70F3259YGF-41A-JBT-A (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	KEY1	I	Front panel keys input terminal (A/D input)
2	KEY0	I	Key input terminal Not used
3	AVDD	-	Power supply terminal (+3.3V)
4	AVSS	-	Ground terminal
5, 6	NC	O	Not used
7	AVREF	I	Reference voltage (+3.3V) input terminal
8	232C_RTS	O	Transmit request signal output terminal for the RS232C Not used
9	232C_CTS	I	Transmit request signal input terminal for the RS232C Not used
10	FLMD0	I	Flash memory data write mode control signal input terminal
11	VDD	-	Power supply terminal (+3.3V)
12	REGC	O	Connection terminal to the regulator capacitor
13	VSS	-	Ground terminal
14	XTI	I	Main system clock input terminal (5 MHz)
15	XTO	O	Main system clock output terminal (5 MHz)
16	RESET	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it change to "H"
17	SUB_CLK_IN	I	Sub system clock input terminal Not used
18	SUB_CLK_OUT	O	Sub system clock output terminal Not used
19	NC	O	Not used
20	KEY_INT	I	Wake up signal input from front panel keys or remote commander
21	232C_INT	I	Wake up signal input terminal for the RS232C Not used
22	DEBUGRST	O	Reset signal output terminal Not used
23	BE_CS	O	Chip select signal output to the CPU
24	CLKG_SDA	I/O	I2C two-way data bus terminal for the clock generator Not used
25	CLKG_SCL	I/O	I2C bus clock signal input/output terminal for the clock generator Not used
26	NC	O	Not used
27	232COUT	O	Serial data output terminal for the RS232C Not used
28	232CIN	I	Serial data input terminal for the RS232C Not used
29	232CPW_DOWN	I	RS232C power down signal output terminal for the RS232C Not used
30	NC	O	Not used
31	SIRCS	I	Remote control signal input from the remote control receiver and CONTROL S IN/IR IN jack
32	HDMI_RST	O	HDMI reset signal output terminal Not used
33	BE_BUSY	I	Busy signal input from the CPU
34	BE_RST	O	Reset signal output to the flash memories, CPU and lip sync adjust "L": reset
35	EVSS	-	Ground terminal
36	EVDD	-	Power supply terminal (+3.3V)
37	ILINK_TX	O	UART transmit data output terminal for the i.link Not used
38	ILINK_RX	I	UART receive data input terminal for the i.link Not used
39	TEST_MODE_IN	I	Test mode on/off control signal input terminal "L": normal mode, "H": test modeFixed at "L" in this set
40	SPDIF_SW	O	Digital out on/off control signal output terminal "H": digital out on
41	FS_SEL	O	Sampling frequency selection signal output to the clock generator
42	CLK_SW	O	Audio clock selection signal output terminal Not used
43	ILINK_RST	O	Reset signal output terminal for the i.link Not used
44	ILINK_OSC_SW	O	I.link OSC on/off control signal output terminal Not used
45	BE_TXD	O	UART transmit data output to the CPU
46	BE_RXD	I	UART receive data input from the CPU
47	LED_PLAY	O	LED drive signal output terminal for playback indicator Not used

Pin No.	Pin Name	I/O	Description
48	LED_PAUSE	O	LED drive signal output terminal for pause indicator Not used
49	LED_FL_OFF	O	LED drive signal output for DIMMER indicator "H": LED on
50	LED_ILINK	O	LED drive signal output terminal for i.LINK indicator Not used
51	FL_OFF	O	Fluorescent indicator tube power on/off control signal output terminal "H": power on
52	LED_VIDEO_OFF	O	LED drive signal output for VIDEO OFF indicator "H": LED on
53	LDM+	O	Loading motor drive signal output terminal "H": motor on
54	LDM-	O	Loading motor drive signal output terminal "H": motor on
55	VIDEO_OFF	O	Power on/off control signal output terminal for video section "H": power on
56	FLD_SDATA	O	Serial data output to the fluorescent indicator tube driver
57	FLD_SCLK	O	Serial data transfer clock signal output to the fluorescent indicator tube driver
58	NC	O	Not used
59	ILINK_CTS	I	Transmit request signal terminal input for the i.link Not used
60	ILINK_RTS	O	Transmit request signal terminal output for the i.link Not used
61	P_MUTE	O	Protect muting on/off control signal output terminal "L": muting on
62	NC	O	Not used
63	FLHS	O	Not used
64	CLKOUT	O	Clock signal output terminal Not used
65	HDMI _INT	O	Interrupt request signal output terminal Not used
66	DISC/EXT	O	Disc output/external input selection signal output terminal not used
67	EUROVY	O	Composite video/s video selection signal output terminal Not used
68	RGBSEL	O	RGB/video selection signal output terminal Not used
69	DSEL	O	Selection signal output terminal Not used
70	WIDE	O	Wide signal output terminal Not used
71	BVSS	-	Ground terminal
72	BVDD	-	Power supply terminal (+3.3V)
73	NT/PAL	O	NTSC/PAL selection signal output terminal Not used
74	AMUTE	O	Audio muting on/off control signal output terminal "L": muting on
75	IF_ADAC_RST	O	Reset signal output to the D/A converter "L": reset
76	VMUTE	O	Video muting on/off control signal output terminal "L": muting on
77	P_CONT	O	Main power on/off control signal output to the switching regulator "H": power on
78	FLMD1	I	Flash memory data write mode control signal input terminal
79	WP1	O	Write protect signal output terminal Not used
80, 81	NC	O	Not used
82	FL_CTRL	O	Flash memory data write mode control signal output terminal
83	HDMI_+5V_RST	O	Power on/off control signal output terminal for HDMI section (+5V) "H": power on
84	TMODE_SW	O	Test mode on/off control signal output to the CPU "H": test mode on
85	FLDRST	O	Reset signal output to the fluorescent indicator tube driver "L": reset
86	FLDCS	O	Chip select signal output to the fluorescent indicator tube driver
87, 88	NC	O	Not used
89	JOG_A	I	Jog dial pulse input from the rotary encoder (A phase input)
90	JOG_B	I	Jog dial pulse input from the rotary encoder (B phase input)
91	LD_IN_SW	I	Loading in detect switch input terminal
92	LD_OUT_SW	I	Loading in detect switch input terminal
93	DEST_SEL	I	Destination setting terminal
94	NC	O	Not used
95	PON_CHECK	I	+3.3V voltage monitor input terminal
96	MODEL_SEL	I	Model setting terminal Fixed at "H" in this set
97	SELF_CHECK	I	Self-diagnosis mode selection signal input terminal (normally at "H")

Pin No.	Pin Name	I/O	Description
98	KEY4	I	Key input terminal Not used
99, 100	KEY3, KEY2	I	Front panel keys input terminal (A/D input)

MAIN BOARD IC502 SAA7893HL (SACD MEDIA PLAYER)

Pin No.	Pin Name	I/O	Description
1	H_A1	I	Address signal input from the CPU
2, 3	H_DQ15, H_DQ14	I/O	Two-way data bus with the flash memories and CPU
4	GND_IO1	-	Ground terminal
5 to 9	H_DQ13 to H_DQ9	I/O	Two-way data bus with the flash memories and CPU
10	VCC_IO1	-	Power supply terminal (+3.3V)
11 to 15	H_DQ8 to H_DQ4	I/O	Two-way data bus with the flash memories and CPU
16	H_DQ3	I/O	Two-way data bus with the flash memories and CPU
17	GND_IO2	-	Ground terminal
18	H_PROCCLOCK	I	27 MHz clock signal input from clock generator
19	VCC_CORE1	-	Power supply terminal (+1.8V)
20	GND_CORE1	-	Ground terminal
21	SYS_CLK	I	27 MHz clock signal input from clock generator
22, 23	H_DQ2, H_DQ1	I/O	Two-way data bus with the flash memories and CPU
24	H_CSN	I	Chip select signal input from the CPU
25	H_DQ0	I/O	Two-way data bus with the flash memories and CPU
26	H_RWN	I	Read/write selection signal input from the CPU "L": read, "H": write
27	H_WAIT	O	Chip wait signal output to the CPU
28	H_IRQN	O	Interrupt request signal output to the CPU
29	AUD_CLK	I	Master clock signal input from the clock generator
30	PCM_DCLK_IN	I	PCM data clock input terminal Not used
31	PCM_WCLK_IN	I	PCM word clock input terminal Not used
32	VDDA	-	Power supply terminal (+1.8V)
33	VSSA	-	Ground terminal
34	BIASIN	I	Bias current input terminal
35	AGCINP	I	RF (for SACD) signal input from the DVD interface
36	ADCREFL	I	ADC decoupling terminal
37	VCC_IO7	-	Power supply terminal (+3.3V)
38	GND_IO7	-	Ground terminal
39	PCM_CELF_IN	I	PCM data (for center or LFE) input terminal Not used
40	PCM_LERI_IN	I	PCM data (for L-ch or R-ch) input terminal Not used
41	PCM_LSRS_IN	I	PCM data (for surround L-ch or surround R-ch) input terminal Not used
42	B_FLAG/SERR	I	I2S bus flag input from the CPU
43	B_SYNC/SYNC	I	Sector sync signal or absolute time sync signal input from the CPU
44	B_WCLK/SENB	I	I2S bus word clock signal input from the CPU
45	B_DATA/BE_DAT0	I	I2S bus data input from the CPU
46	B_BCLK/SDCLK	I	I2S bus clock signal input from the CPU
47	UDE_REQ	I	Request signal input terminal Not used
48	DATA_REQ	O	Request signal output terminal Not used
49 to 55	BE_DAT1 toBE_DAT7	I	Parallel data input terminal Not used
56	TRST	I	Reset signal input terminal (for JTAG)
57	TMS	I	Mode selection signal input terminal (for JTAG)
58	VCC_IO2	-	Power supply terminal (+3.3V)
59	TDO	O	Data output terminal (for JTAG)
60	TDI	I	Data input terminal (for JTAG)
61	TCK	I	Clock signal input terminal (for JTAG)
62	H_SEL0	I	Host selection signal input terminal Fixed at "L" in this set
63	H_SEL1	I	Host selection signal input terminal Fixed at "H" in this set
64	D_ADDR3	O	Address signal output to the SD-RAM
65	D_ADDR4	O	Address signal output to the SD-RAM

Pin No.	Pin Name	I/O	Description
66	D_ADDR2	O	Address signal output to the SD-RAM
67	D_ADDR5	O	Address signal output to the SD-RAM
68	D_ADDR1	O	Address signal output to the SD-RAM
69	GND_IO3	-	Ground terminal
70	D_ADDR6	O	Address signal output to the SD-RAM
71	D_ADDR0	O	Address signal output to the SD-RAM
72	D_ADDR7	O	Address signal output to the SD-RAM
73	D_ADDR10	O	Address signal output to the SD-RAM
74	D_ADDR8	O	Address signal output to the SD-RAM
75	D_ADDR13	O	Address signal output to the SD-RAM
76	VCC_IO3	-	Power supply terminal (+3.3V)
77	D_ADDR9	O	Address signal output to the SD-RAM
78	D_ADDR12	O	Address signal output to the SD-RAM
79	D_ADDR11	O	Address signal output to the SD-RAM
80	D_WEN	O	Write enable signal output to the SD-RAM
81	D_RASN	O	Row address signal output to the SD-RAM
82	D_CASN	O	Column address signal output to the SD-RAM
83	GND_IO4	-	Ground terminal
84	GND_CORE2	-	Ground terminal
85	VCC_CORE2	-	Power supply terminal (+1.8V)
86	D_CLK	O	Clock signal output to the SD-RAM
87	D_DQ5	I/O	Two-way data bus with the SD-RAM
88	D_UDQM	O	Write mask signal output to the SD-RAM (upper byte)
89	D_LDQM	O	Write mask signal output to the SD-RAM (lower byte)
90	D_DQ7	I/O	Two-way data bus with the SD-RAM
91	D_DQ8	I/O	Two-way data bus with the SD-RAM
92	VCC_IO4	-	Power supply terminal (+3.3V)
93	D_DQ6	I/O	Two-way data bus with the SD-RAM
94	D_DQ9	I/O	Two-way data bus with the SD-RAM
95	D_DQ10	I/O	Two-way data bus with the SD-RAM
96	D_DQ4	I/O	Two-way data bus with the SD-RAM
97	D_DQ11	I/O	Two-way data bus with the SD-RAM
98	D_DQ3	I/O	Two-way data bus with the SD-RAM
99	GND_IO5	-	Ground terminal
100	D_DQ12	I/O	Two-way data bus with the SD-RAM
101	D_DQ2	I/O	Two-way data bus with the SD-RAM
102	D_DQ13	I/O	Two-way data bus with the SD-RAM
103	D_DQ1	I/O	Two-way data bus with the SD-RAM
104	D_DQ14	I/O	Two-way data bus with the SD-RAM
105	D_DQ0	I/O	Two-way data bus with the SD-RAM
106	VCC_IO5	-	Power supply terminal (+3.3V)
107	D_DQ15	I/O	Two-way data bus with the SD-RAM
108	DSD_PCM_0	O	DSD data (for front L-ch) output to the D/A converter
109	DSD_PCM_1	O	DSD data (for front R-ch) output to the D/A converter
110	DSD_PCM_2	O	DSD data (for center) output to the D/A converter
111	DSD_PCM_3	O	DSD data (for woofer) output to the D/A converter
112	GND_IO5	-	Ground terminal
113	DSD_PCM_4	O	DSD data (for rear L-ch) output to the D/A converter
114	DSD_PCM_5	O	DSD data (for rear R-ch) output to the D/A converter
115	DSD_PCM_6	O	DSD clock signal output to the D/A converter

Pin No.	Pin Name	I/O	Description
116	DSD_PCM_7	O	DSD data output terminal Not used
117	DSD_PCM_8	O	DSD data output terminal Not used
118	VCC_IO6	-	Power supply terminal (+3.3V)
119	DSD_PCM_10	O	DSD data output terminal Not used
120	DSD_PCM_9	O	DSD data (for R-ch) output to the D/A converter
121	DSD_PCM_11	O	DSD data (for L-ch) output to the D/A converter
122	RESETN	I	Reset signal input from the CPU "L": reset
123	H_A_SEL	I	Address signal input from the CPU
124 to 128	H_A6 to H_A2	I	Address signal input from the CPU

MAIN BOARD IC552 CXD9722ATQ (LIP SYNC ADJUST)

Pin No.	Pin Name	I/O	Description
1 to 5	D1 to D5	I/O	Two-way data bus with the SD-RAM
6	VDD	-	Power supply terminal (+3.3V)
7, 8	D6, D7	I/O	Two-way data bus with the SD-RAM
9	VSS	-	Ground terminal
10	WE	O	Write enable signal output to the SD-RAM
11	CAS	O	Column address strobe signal output to the SD-RAM
12	RAS	O	Row address strobe signal output to the SD-RAM
13	CS	O	Chip select signal output to the SD-RAM
14	CLK	O	Clock signal output to the SD-RAM
15	CKE	O	Clock enable signal output to the SD-RAM
16	VDD	-	Power supply terminal (+3.3V)
17 to 22	A11, A10, A0 to A3	O	Address signal output to the SD-RAM
23	VSS	-	Ground terminal
24 to 29	A9 to A4	O	Address signal output to the SD-RAM
30	VSS	-	Ground terminal
31	DRSO	O	DSD data (for rear R-ch) output terminal Not used
32	DLSO	O	DSD data (for rear L-ch) output terminal Not used
33	DEXRO	O	Not used
34	DLFEO	O	DSD data (for woofer) output terminal Not used
35	DCO	O	DSD data (for center) output terminal Not used
36	VDD	-	Power supply terminal (+3.3V)
37	DRO	O	DSD data (for front R-ch) output terminal Not used
38	DLO	O	DSD data (for front L-ch) output terminal Not used
39	VSS	-	Ground terminal
40	DMRO	O	DSD data (for R-ch down mix) output terminal Not used
41	DMLO	O	DSD data (for L-ch down mix) output terminal Not used
42	VSS	-	Ground terminal
43	VDD	-	Power supply terminal (+3.3V)
44	DLDRO	O	Audio data (for down mix) output to the D/A converter and HDMI transmitter
45	CSWO	O	Audio data (for center and woofer) output to the D/A converter and HDMI transmitter
46	SLSRO	O	Audio data (for rear) output to the D/A converter and HDMI transmitter
47	FLFRO	O	Audio data (for front) output to the D/A converter and HDMI transmitter
48	VSS	-	Ground terminal
49	SPDIFO	O	Digital audio data output to the D/A converter and HDMI transmitter
50	TEST1	I	Input terminal for the test
51	TRST	I	Reset signal input terminal (for JTAG)
52	TMS	I	Mode selection signal input terminal (for JTAG)
53	TCK	I	Clock signal input terminal (for JTAG)
54	TDI	I	Data input terminal (for JTAG)
55	TDO	O	Data output terminal (for JTAG)
56	TEST2	I	Input terminal for the test
57	SPDIFI	I	Digital audio data input from the CPU
58	VSS	-	Ground terminal
59	LRCKI	I	L/R sampling clock signal input from the CPU
60	BCKI	I	Bit clock signal input from the CPU
61	VDD	-	Power supply terminal (+3.3V)
62	VSS	-	Ground terminal
63	DLDRI	I	PCM audio data (for down mix) input from the CPU
64	CSWI	I	PCM audio data (for center and woofer) input from the CPU

Pin No.	Pin Name	I/O	Description
65	SLSRI	I	PCM audio data (for rear) input from the CPU
66	FLFRI	I	PCM audio data (for front) input from the CPU
67	TEST3	I	Input terminal for the test
68	CLK512	I	Master clock signal input from the clock generator
69	VSS	-	Ground terminal
70	XRST	I	Reset signal input from the system controller "L": reset
71	VDD	-	Power supply terminal (+3.3V)
72	SCLK	I	Serial data transfer clock signal input from the CPU
73	XCS	I	Chip select signal input from the shift register
74	SI	I	Serial data input from the CPU
75	SO	O	Serial data output to the CPU
76	DEXRI	-	Not used
77	DMLI	I	DSD data (for front L-ch down mix) input terminal Not used
78	DMRI	I	DSD data (for front R-ch down mix) input terminal Not used
79	VSS	-	Ground terminal
80	PHRI	I	Clock signal input terminal Not used
81	BCKAI	I	Bit clock signal input terminal Not used
82	DQM	O	Not used
83	DLI	I	DSD data (for front L-ch) input terminal Not used
84	DRI	I	DSD data (for front R-ch) input terminal Not used
85	DCI	I	DSD data (for center) input terminal Not used
86	DLFEI	I	DSD data (for woofer) input terminal Not used
87	DLSI	I	DSD data (for rear L-ch) input terminal Not used
88	DRSI	I	DSD data (for rear R-ch) input terminal Not used
89	VSS	-	Ground terminal
90 to 95	D15 to D10	I/O	Two-way data bus with the SD-RAM
96	VDD	-	Power supply terminal (+3.3V)
97, 98	D9, D8	I/O	Two-way data bus with the SD-RAM
99	GND	-	Ground terminal
100	D0	I/O	Two-way data bus with the SD-RAM

MAIN BOARD IC603 CXD9866R (INTERLACE/PROGRESSIVE CONVERTER)

Pin No.	Pin Name	I/O	Description
1 to 3	TEST0 to TEST2	I	Input terminal for the test
4	ALSB	I	I2C slave address setting terminal
5	SDA	I/O	I2C two-way data bus with the DVD interface, CPU and video encoder
6	SCL	I	I2C bus clock signal input from the CPU
7	TEST3	I	Input terminal for the test
8	NRST	I	Reset signal input from the CPU “L”: reset
9	TEST4	I	Input terminal for the test
10	CLKI	I	27 MHz clock signal input from the CPU
11	TEST5	I	Input terminal for the test
12	AVS1	-	Ground terminal (analog system)
13	AVD1	-	Power supply terminal (+3.3V) (analog system)
14	CPO	O	Charge pump output terminal
15	VCI	I	VCO input terminal
16	AVS2	-	Ground terminal (analog system)
17	AVD2	-	Power supply terminal (+3.3V) (analog system)
18	NTEST	I	Input terminal for the test
19	VI	I	Vertical synchronize signal input terminal Not used
20	HI	I	Horizontal synchronize signal input terminal Not used
21, 22	SI0, SI1	I	Digital video signal input terminal Not used
23 to 30	SI2 to SI9	I	Digital video signal input from the CPU
31	VSS	-	Ground terminal (digital system)
32	VDDI	-	Power supply terminal (+1.8V) (for core)
33	VDDE	-	Power supply terminal (+3.3V) (for I/O)
34 to 43	CO9 to CO0	O	CB (component video) and CR (component video) signal output to the video encoder
44	VSS	-	Ground terminal (digital system)
45	VDDI	-	Power supply terminal (+1.8V) (for core)
46	VDDE	-	Power supply terminal (+3.3V) (for I/O)
47 to 56	YO9 to YO0	O	Y (component video) signal output to the video encoder
57	VSS	-	Ground terminal (digital system)
58	VDDI	-	Power supply terminal (+1.8V) (for core)
59	CLKO	O	27 MHz clock signal output to the video encoder
60	VDDE	-	Power supply terminal (+3.3V) (for I/O)
61 to 70	SO9 to SO0	O	Video signal output to the video encoder
71	TEST6	I	Input terminal for the test
72	HO	O	Horizontal synchronize signal output terminal Not used
73	VO	O	Vertical synchronize signal output terminal Not used
74	FILM	O	Film detection flag output terminal Not used
75	VDDI	-	Power supply terminal (+1.8V) (for core)
76	VSS	-	Ground terminal (digital system)
77	VDDE	-	Power supply terminal (+3.3V) (for I/O)
78	AVSP	-	Ground terminal (analog system)
79	AVDP	-	Power supply terminal (+3.3V) (analog system)
80	VSS	-	Ground terminal (digital system)
81	VDDE	-	Power supply terminal (+3.3V) (for I/O)
82	VDDI	-	Power supply terminal (+1.8V) (for core)
83	MCLK	O	108 MHz clock signal output to the SD-RAM
84	VSS	-	Ground terminal (digital system)
85 to 88	MD19 to MD16	I/O	Two-way data bus terminal Not used
89	VDDI	-	Power supply terminal (+1.8V) (for core)

Pin No.	Pin Name	I/O	Description
90	VSS	-	Ground terminal (digital system)
91	VDDE	-	Power supply terminal (+3.3V) (for I/O)
93	MA3	O	Address signal output to the SD-RAM
94	MA4	O	Address signal output to the SD-RAM
95	MA2	O	Address signal output to the SD-RAM
96	MA5	O	Address signal output to the SD-RAM
97	MA1	O	Address signal output to the SD-RAM
98	MA6	O	Address signal output to the SD-RAM
99	MA0	O	Address signal output to the SD-RAM
99	VDDE	-	Power supply terminal (+3.3V) (for I/O)
100	VSS	-	Ground terminal (digital system)
101	MA7	O	Address signal output to the SD-RAM
102	MA10	O	Address signal output to the SD-RAM
103	MA8	O	Address signal output to the SD-RAM
104	MA11	O	Address signal output to the SD-RAM
105	MA9	O	Address signal output to the SD-RAM
106	RAS	O	Row address signal output to the SD-RAM
107	DQM	O	Write mask signal output to the SD-RAM
108	CAS	O	Column address signal output to the SD-RAM
109	WE	O	Write enable signal output to the SD-RAM
110	VDDE	-	Power supply terminal (+3.3V) (for I/O)
111	VSS	-	Ground terminal (digital system)
112	VDDI	-	Power supply terminal (+1.8V) (for core)
113	MD7	I/O	Two-way data bus with the SD-RAM
114	MD8	I/O	Two-way data bus with the SD-RAM
115	MD6	I/O	Two-way data bus with the SD-RAM
116	MD9	I/O	Two-way data bus with the SD-RAM
117	MD5	I/O	Two-way data bus with the SD-RAM
118	MD10	I/O	Two-way data bus with the SD-RAM
119	MD4	I/O	Two-way data bus with the SD-RAM
120	MD11	I/O	Two-way data bus with the SD-RAM
121	VDDE	-	Power supply terminal (+3.3V) (for I/O)
122	VSS	-	Ground terminal (digital system)
123	MD3	I/O	Two-way data bus with the SD-RAM
124	MD12	I/O	Two-way data bus with the SD-RAM
125	MD2	I/O	Two-way data bus with the SD-RAM
126	MD13	I/O	Two-way data bus with the SD-RAM
127	MD1	I/O	Two-way data bus with the SD-RAM
128	MD14	I/O	Two-way data bus with the SD-RAM
129	MD0	I/O	Two-way data bus with the SD-RAM
130	MD15	I/O	Two-way data bus with the SD-RAM
131	VDDI	-	Power supply terminal (+1.8V) (for core)
132	VSS	-	Ground terminal (digital system)
133	VDDE	-	Power supply terminal (+3.3V) (for I/O)
134	QV	O	Vertical synchronize signal output to the HDMI transmitter
135	QH	O	Horizontal synchronize signal output to the HDMI transmitter
136	QDE	O	Data enable signal output to the HDMI transmitter
137	VSS	-	Ground terminal (digital system)
138 to 141	QB0 to QB3	O	RGB (blue) signal output to the HDMI transmitter
142	VDDE	-	Power supply terminal (+3.3V) (for I/O)

Pin No.	Pin Name	I/O	Description
143 to 146	QB4 to QB7	O	RGB (blue) signal output to the HDMI transmitter
147	VSS	-	Ground terminal (digital system)
148	QCLK	O	Clock signal output to the HDMI transmitter
149	VDDI	-	Power supply terminal (+1.8V) (for core)
150	VDDE	-	Power supply terminal (+3.3V) (for I/O)
151 to 154	QG0 to QG3	O	RGB (green) signal output to the HDMI transmitter
155	VSS	-	Ground terminal (digital system)
156	VDDE	-	Power supply terminal (+3.3V) (for I/O)
157 to 160	QG4 to QG7	O	RGB (green) signal output to the HDMI transmitter
161	VDDI	-	Power supply terminal (+1.8V) (for core)
162	VSS	-	Ground terminal (digital system)
163	VDDE	-	Power supply terminal (+3.3V) (for I/O)
164 to 167	QR0 to QR3	O	RGB (red) signal output to the HDMI transmitter
168	VSS	-	Ground terminal (digital system)
169	VDDE	-	Power supply terminal (+3.3V) (for I/O)
170 to 173	QR4 to QR7	O	RGB (red) signal output to the HDMI transmitter
174	VDDI	-	Power supply terminal (+1.8V) (for core)
175	VDDE	-	Power supply terminal (+3.3V) (for I/O)
176	VSS	-	Ground terminal (digital system)

SECTION 8
EXPLODED VIEWS

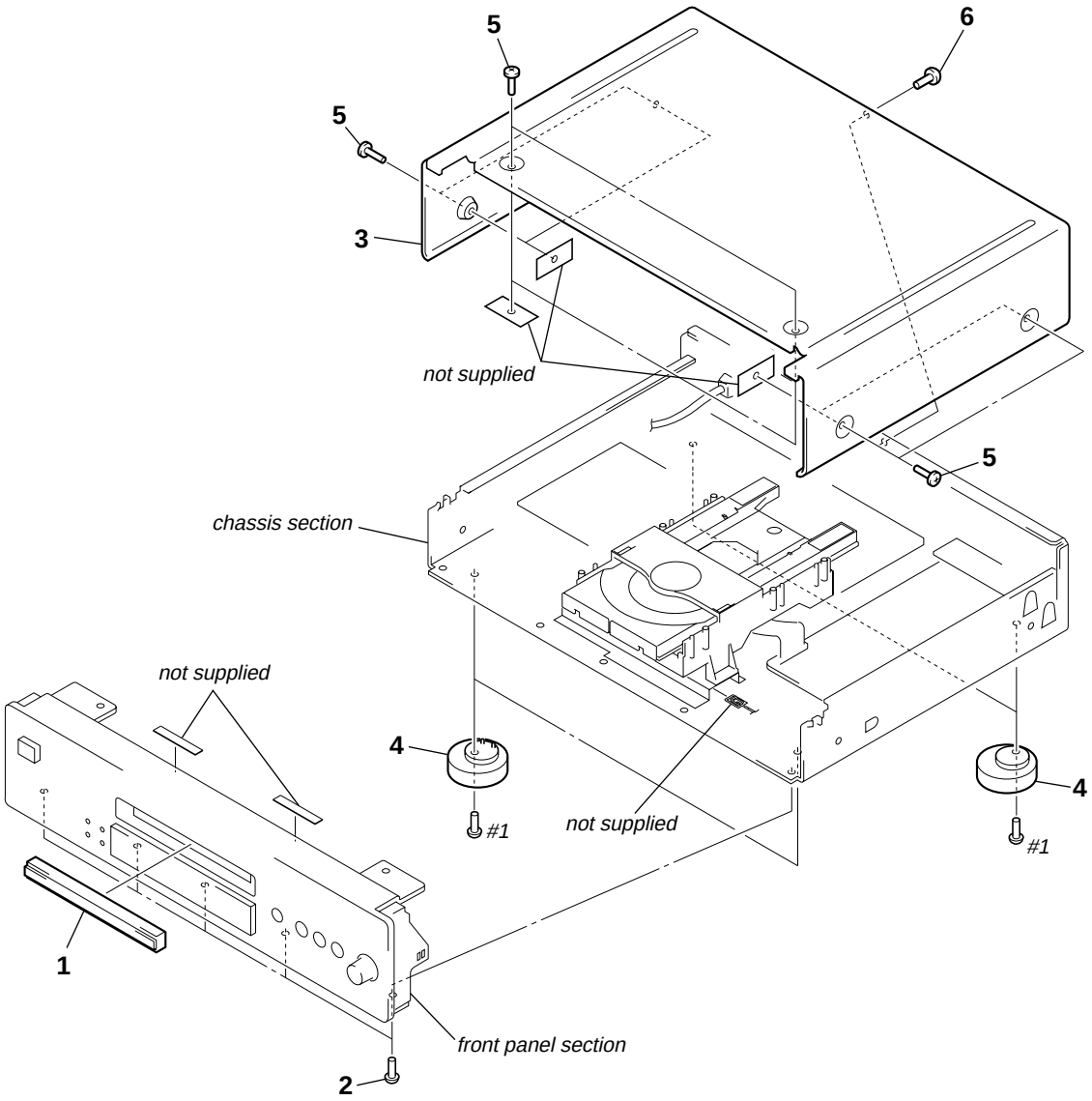
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.
- Color variation
  SILVER : US, Canadian models
  BLACK : US model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

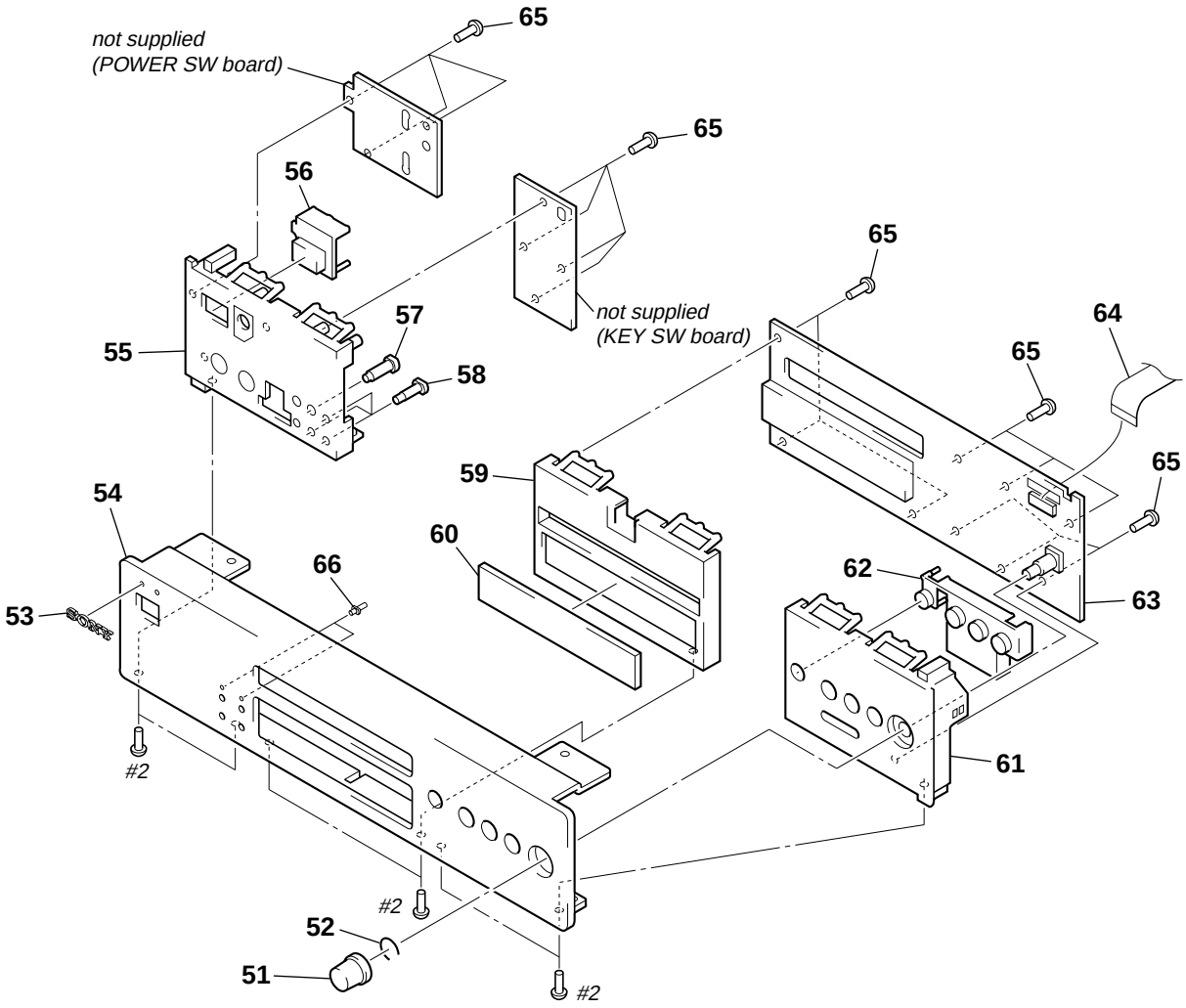
8-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	A-1089-426-A	LOADING ASSY, PANEL (SILVER)	
1	A-1153-237-A	LOADING ASSY, PANEL (BLACK)	
2	3-704-515-22	SCREW (BV/RING) (for BLACK)	
2	3-704-515-32	SCREW (BV/RING) (for SILVER)	
3	2-547-233-31	CASE (BLACK)	
3	2-547-233-51	CASE (SILVER)	

Ref. No.	Part No.	Description	Remark
4	X-4955-348-1	FOOT ASSY	
5	4-227-843-03	SCREW (TP), FLAT HEAD (for BLACK)	
5	4-227-843-31	SCREW (TP), FLAT HEAD (for SILVER)	
6	4-974-510-11	SCREW (+BV 3X8 CU)	
#1	7-685-885-09	SCREW +BVTT 4X16 (S)	

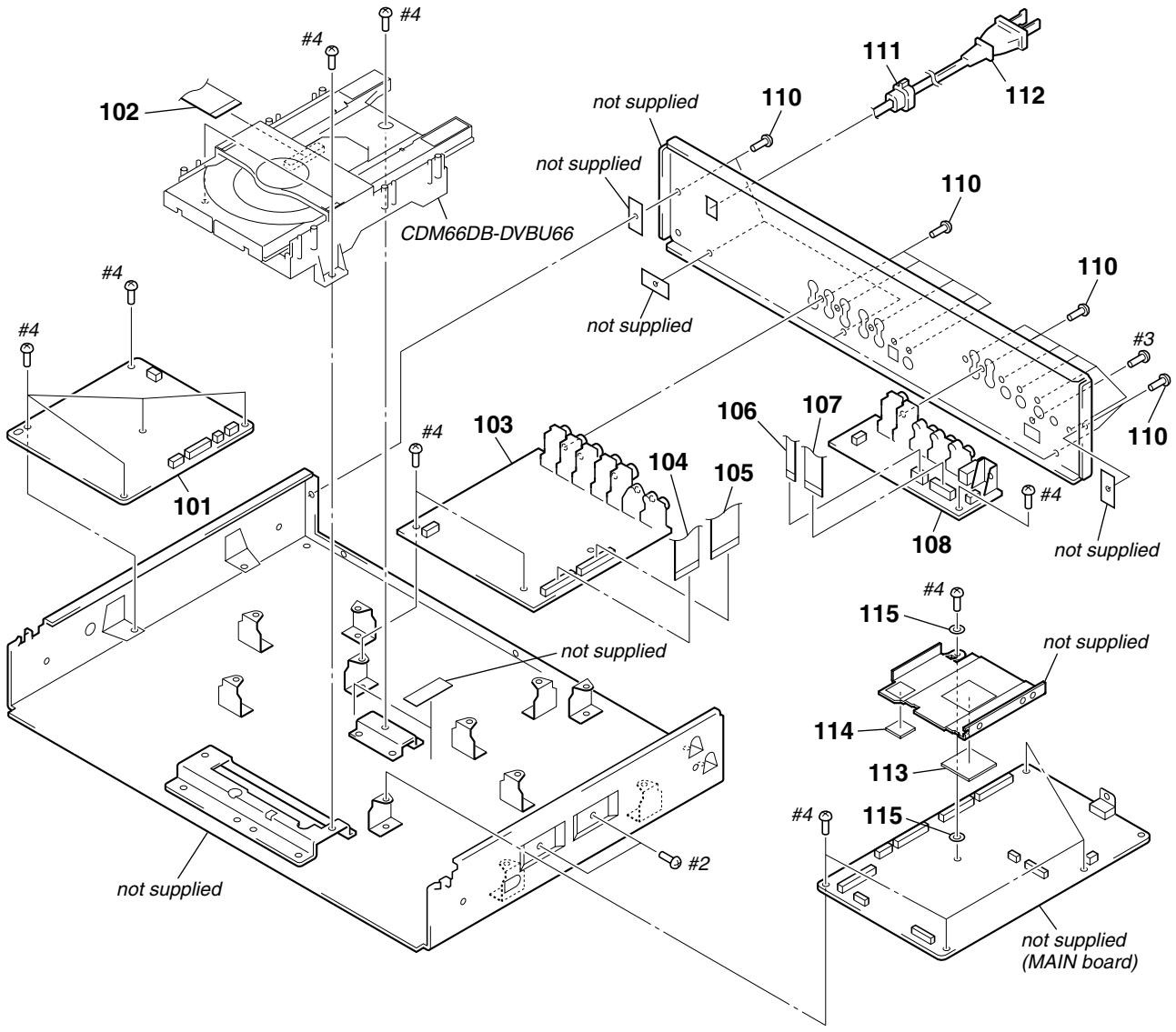
8-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-232-622-01	KNOB (AMS) (BLACK)	
51	4-232-622-31	KNOB (AMS) (SILVER)	
52	3-354-981-11	SPRING (SUS), RING	
53	4-942-568-41	EMBLEM (NO.5), SONY (for BLACK)	
53	4-942-568-61	EMBLEM (NO.5), SONY (for SILVER)	
54	4-244-275-31	PANEL, FRONT (SILVER)	
54	4-244-275-41	PANEL, FRONT (BLACK)	
55	4-227-832-01	BASE (L), PANEL (BLACK)	
55	4-227-832-31	BASE (L), PANEL (SILVER)	
56	4-228-513-01	BUTTON (POWER) (I/⏻) (BLACK)	
56	4-228-513-21	BUTTON (POWER) (I/⏻) (SILVER)	
57	4-232-616-01	BUTTON (TIME/TEXT) (BLACK)	
57	4-232-616-31	BUTTON (TIME/TEXT) (SILVER)	
58	4-228-512-01	BUTTON (SUB) (BLACK)	
58	4-228-512-31	BUTTON (SUB) (SILVER)	

Ref. No.	Part No.	Description	Remark
59	4-232-611-01	BASE (M), PANEL (BLACK)	
59	4-232-611-31	BASE (M), PANEL (SILVER)	
60	4-227-835-12	PLATE, INDICATION (for BLACK)	
60	4-227-835-21	PLATE, INDICATION (for SILVER)	
61	4-232-610-01	BASE (R), PANEL (BLACK)	
61	4-232-610-31	BASE (R), PANEL (SILVER)	
62	4-232-612-41	BUTTON (PLAY) (⏏, ►, ❚❚, ■) (SILVER)	
62	4-232-612-51	BUTTON (PLAY) (⏏, ►, ❚❚, ■) (BLACK)	
63	A-1099-561-A	DISPLAY BOARD, COMPLETE	
64	1-828-620-11	WIRE (FLAT TYPE) (19 CORE)	
65	3-087-053-01	+BVTP2.6 (3CR)	
66	2-547-239-01	INDICATOR	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

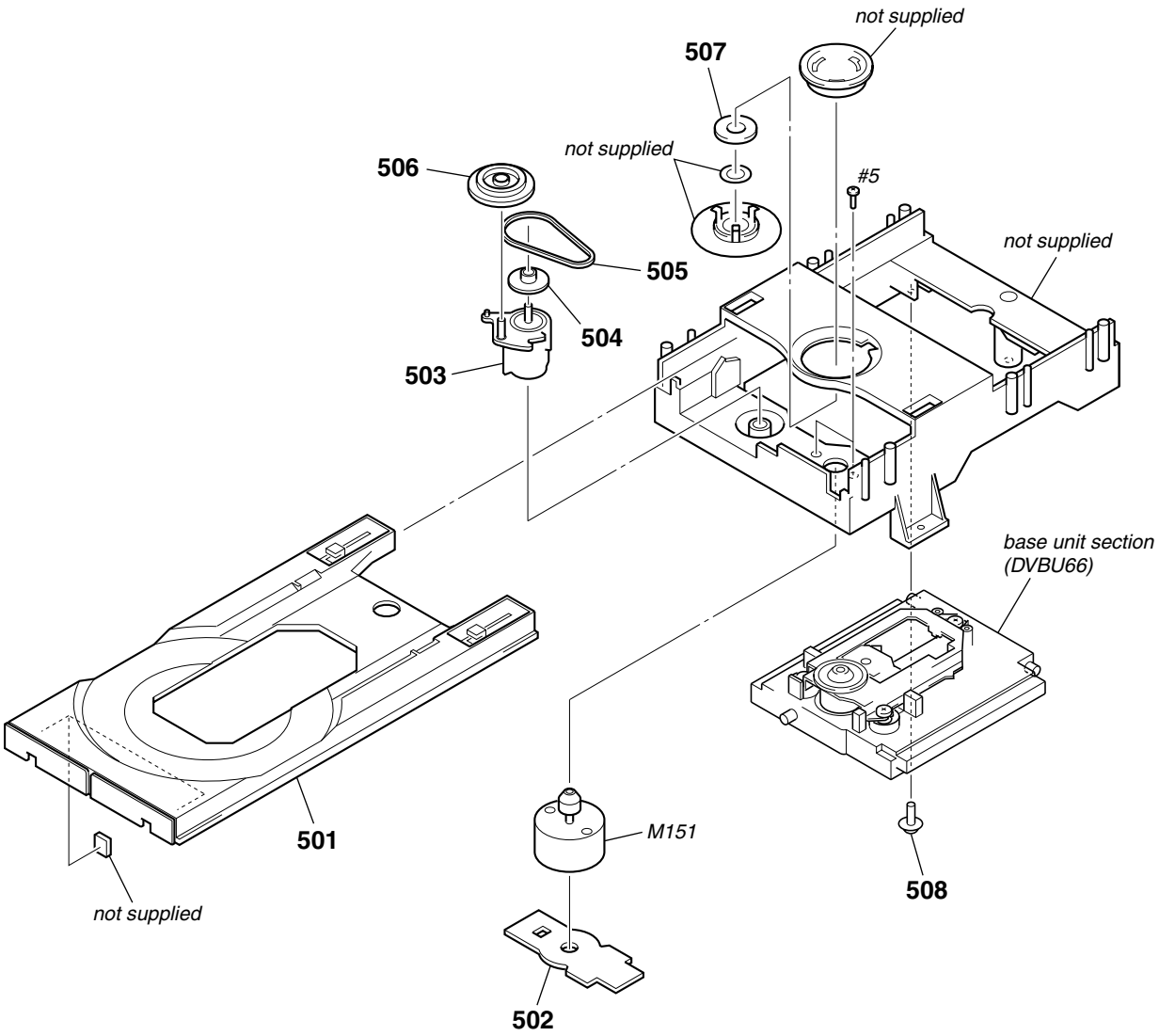
8-3. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
⚠101	1-468-895-11	REGULATOR, SWITCHING	
102	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)	
103	A-1099-564-A	AUDIO BOARD, COMPLETE	
104	1-828-646-11	WIRE (FLAT TYPE) (25 CORE)	
105	1-828-666-11	WIRE (FLAT TYPE) (29 CORE)	
106	1-828-549-11	WIRE (FLAT TYPE) (5 CORE)	
107	1-828-599-11	WIRE (FLAT TYPE) (15 CORE)	
108	A-1099-623-A	VIDEO BOARD, COMPLETE	
110	4-974-510-11	SCREW (+BV 3X8 CU)	
* 111	3-703-244-00	BUSHING (2104), CORD	

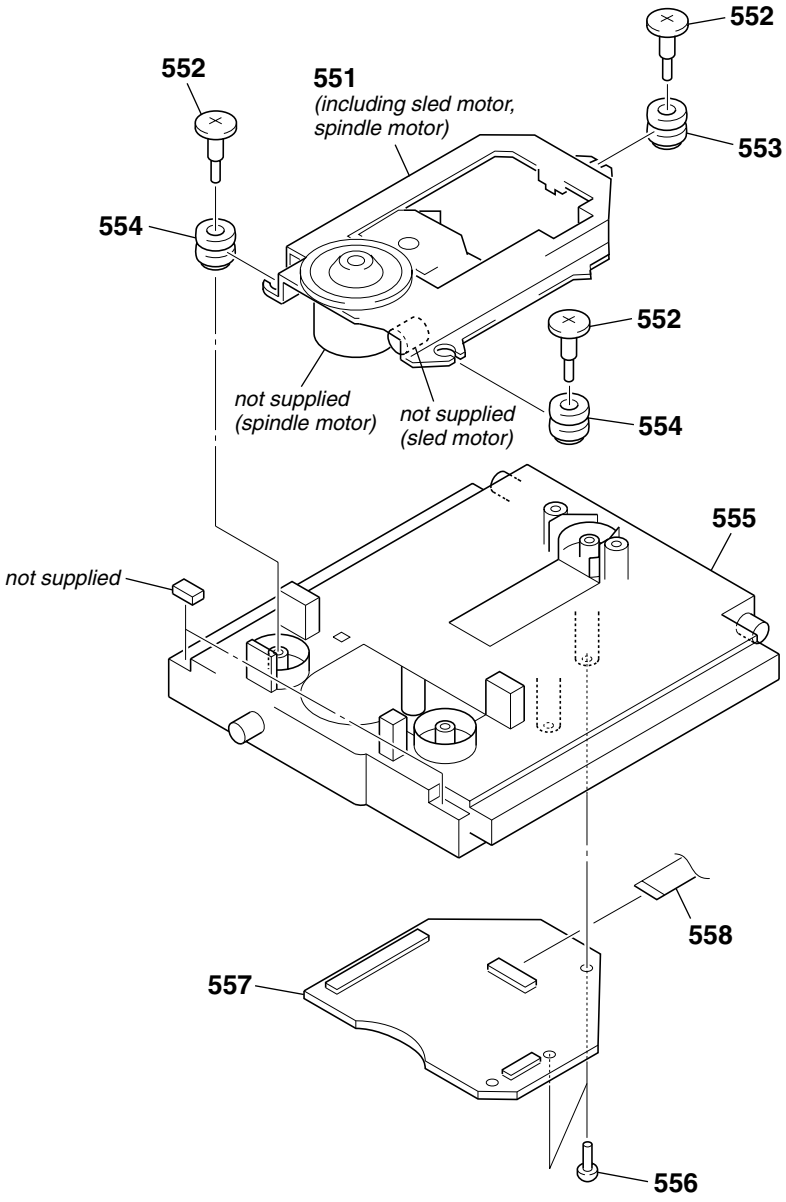
Ref. No.	Part No.	Description	Remark
⚠112	1-783-820-31	CORD, POWER	
113	2-585-361-21	SHEET, RADIATION	
114	2-585-361-01	SHEET, RADIATION	
115	4-971-099-11	WASHER (P)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-872-09	SCREW +BVTT 3X8 (S)	
#4	7-682-548-09	+B 3X8	

8-4. MECHANISM DECK SECTION (CDM66DB-DVBU66)



Ref. No.	Part No.	Description	Remark
501	4-231-530-05	TRAY (66)	
502	1-645-721-11	LOADING BOARD	
503	4-232-712-01	CAM (66)	
504	4-232-710-01	PULLEY (LD)	
505	4-232-713-01	BELT (LD)	
506	4-232-711-01	GEAR (LD)	
507	3-053-844-01	YOKE	
508	4-227-899-31	SCREW (DIA. 12), FROATING	
M151	A-4604-363-A	MOTOR (L) ASSY (LOADING)	
#5	7-621-775-10	SCREW +B 2.6X4	

8-5. BASE UNIT SECTION (DVBU66)



Ref. No.	Part No.	Description	Remark
⚠551	A-1109-165-A	OPTICAL TRAVERSE UNIT (DBU-3)	
552	4-981-923-01	SCREW (M), STEP	
553	3-053-847-41	INSULATOR	
554	3-057-023-11	INSULATOR (RB)	
555	4-240-953-11	HOLDER (66D)	
556	4-218-253-52	SCREW (M2.6), +BTTP	
557	A-1088-545-A	BU BOARD, COMPLETE	
558	1-824-106-51	CABLE, FLEXIBLE FLAT (0.5mm PITCH)	

SECTION 9
ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA... : µA... uPA... : µPA...
  uPB... : µPB... uPC... : µPC...
  uPD... : µPD...
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-1099-564-A	AUDIO BOARD, COMPLETE			
		**********			
		< CAPACITOR/JUMPER RESISTOR >			
C300	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C306	1-104-665-11	ELECT	100uF	20%	25V
C307	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C308	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C309	1-126-935-11	ELECT	470uF	20%	16V
C312	1-126-964-11	ELECT	10uF	20%	50V
C320	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C326	1-104-665-11	ELECT	100uF	20%	25V
C327	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C328	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C329	1-126-935-11	ELECT	470uF	20%	16V
C332	1-126-964-11	ELECT	10uF	20%	50V
C340	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C346	1-104-665-11	ELECT	100uF	20%	25V
C347	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C348	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C349	1-126-935-11	ELECT	470uF	20%	16V
C352	1-126-964-11	ELECT	10uF	20%	50V
C360	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C366	1-104-665-11	ELECT	100uF	20%	25V
C367	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C368	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C369	1-126-935-11	ELECT	470uF	20%	16V
C372	1-126-964-11	ELECT	10uF	20%	50V
C381	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C383	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C385	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C387	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C391	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C393	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C395	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C397	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C401	1-126-947-11	ELECT	47uF	20%	35V
C402	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C403	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C405	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C406	1-126-947-11	ELECT	47uF	20%	35V
C421	1-126-947-11	ELECT	47uF	20%	35V
C422	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C423	1-164-217-11	CERAMIC CHIP	150PF	5%	50V

Ref. No.	Part No.	Description			Remark
C425	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C426	1-126-947-11	ELECT	47uF	20%	35V
C441	1-126-947-11	ELECT	47uF	20%	35V
C442	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C443	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C445	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C446	1-126-947-11	ELECT	47uF	20%	35V
C461	1-126-947-11	ELECT	47uF	20%	35V
C462	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C463	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C465	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C466	1-126-947-11	ELECT	47uF	20%	35V
C481	1-126-960-11	ELECT	1uF	20%	50V
C482	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C483	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C484	1-104-665-11	ELECT	100uF	20%	25V
C485	1-216-864-11	SHORT CHIP	0		
C486	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C487	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C491	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C501	1-126-947-11	ELECT	47uF	20%	35V
C502	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C503	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-126-947-11	ELECT	47uF	20%	35V
C521	1-126-947-11	ELECT	47uF	20%	35V
C522	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C523	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C526	1-126-947-11	ELECT	47uF	20%	35V
C541	1-126-947-11	ELECT	47uF	20%	35V
C542	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C543	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C545	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C546	1-126-947-11	ELECT	47uF	20%	35V
C561	1-126-947-11	ELECT	47uF	20%	35V
C562	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C563	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C565	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C566	1-126-947-11	ELECT	47uF	20%	35V
C601	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C602	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C603	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C604	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C661	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C691	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C693	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C697	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C713	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C714	1-104-665-11	ELECT	100uF	20%	25V
C731	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C732	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C733	1-104-665-11	ELECT	100uF	20%	25V
C734	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C751	1-126-926-11	ELECT	1000uF	20%	10V
C753	1-126-926-11	ELECT	1000uF	20%	10V
C755	1-104-665-11	ELECT	100uF	20%	25V
		< CONNECTOR >			
CN631	1-784-382-21	CONNECTOR, FFC/FPC 25P			
CN661	1-778-957-11	CONNECTOR, FFC/FPC 29P			
CN751	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< DIODE >			
D698	6-500-219-01	DIODE 1SS404 (TPH3)			
D699	6-500-219-01	DIODE 1SS404 (TPH3)			
		< EARTH TERMINAL >			
EP601	1-537-771-21	TERMINAL BOARD, GROUND			
		< JUMPER RESISTOR >			
FB665	1-216-864-11	SHORT CHIP	0		
FB666	1-216-864-11	SHORT CHIP	0		
FB667	1-216-864-11	SHORT CHIP	0		
FB668	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC300	6-703-420-01	IC DSD1751DBQR			
IC320	6-703-420-01	IC DSD1751DBQR			
IC340	6-703-420-01	IC DSD1751DBQR			
IC360	6-703-420-01	IC DSD1751DBQR			
IC400	8-759-710-97	IC NJM4565M-D			
IC420	8-759-710-97	IC NJM4565M-D			
IC440	8-759-710-97	IC NJM4565M-D			
IC460	8-759-710-97	IC NJM4565M-D			
IC490	6-600-461-01	IC TOTX147L (DIGITAL OUT PCM/DTS/ DOLBY DIGITAL OPTICAL)			
IC710	6-705-469-01	IC BA50BC0FP-E2			
IC730	6-704-470-01	IC TK11233CMCL-G			
		< JACK >			
J401	1-785-489-11	JACK, PIN 6P (5.1CH OUTPUT FRONT/REAR/ CENTER/WOOFER)			
J402	1-784-430-11	JACK, PIN 4P (AUDIO OUT 1/2)			
J481	1-818-300-11	JACK, PIN 1P (DIGITAL OUT PCM/DTS/ DOLBY DIGITAL COAXIAL)			
		< COIL/JUMPER RESISTOR/FILTER >			
L481	1-414-404-41	INDUCTOR	100uH		
L482	1-216-864-11	SHORT CHIP	0		
L750	1-424-122-11	FILTER, NOISE			
L751	1-424-122-11	FILTER, NOISE			
		< TRANSISTOR >			
Q402	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q422	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q442	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q462	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q481	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q502	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q522	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q542	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q562	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q691	8-729-027-35	TRANSISTOR	DTA143TKA-T146		
Q693	8-729-027-35	TRANSISTOR	DTA143TKA-T146		
Q698	8-729-027-59	TRANSISTOR	DTC144EKA-T146		
Q699	8-729-027-50	TRANSISTOR	DTC123JKA-T146		
		< RESISTOR >			
R317	1-216-864-11	SHORT CHIP	0		
R337	1-216-864-11	SHORT CHIP	0		
R357	1-216-864-11	SHORT CHIP	0		
R377	1-216-864-11	SHORT CHIP	0		
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R403	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R407	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R408	1-216-845-11	METAL CHIP	100K	5%	1/10W
R409	1-216-815-11	METAL CHIP	330	5%	1/10W
R410	1-216-813-11	METAL CHIP	220	5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R423	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R427	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R428	1-216-845-11	METAL CHIP	100K	5%	1/10W
R429	1-216-815-11	METAL CHIP	330	5%	1/10W
R430	1-216-813-11	METAL CHIP	220	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-833-11	METAL CHIP	10K	5%	1/10W
R443	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R447	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R448	1-216-845-11	METAL CHIP	100K	5%	1/10W
R449	1-216-815-11	METAL CHIP	330	5%	1/10W
R450	1-216-813-11	METAL CHIP	220	5%	1/10W
R451	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R463	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R467	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R468	1-216-845-11	METAL CHIP	100K	5%	1/10W
R469	1-216-815-11	METAL CHIP	330	5%	1/10W
R470	1-216-813-11	METAL CHIP	220	5%	1/10W
R471	1-216-809-11	METAL CHIP	100	5%	1/10W
R481	1-216-845-11	METAL CHIP	100K	5%	1/10W
R482	1-216-805-11	METAL CHIP	47	5%	1/10W
R483	1-216-817-11	METAL CHIP	470	5%	1/10W
R484	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R485	1-216-824-11	METAL CHIP	1.8K	5%	1/10W

AUDIO **BU**

Ref. No.	Part No.	Description			Remark
R486	1-216-864-11	SHORT CHIP	0		
R487	1-216-797-11	METAL CHIP	10	5%	1/10W
R501	1-216-833-11	METAL CHIP	10K	5%	1/10W
R503	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R507	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R508	1-216-845-11	METAL CHIP	100K	5%	1/10W
R509	1-216-815-11	METAL CHIP	330	5%	1/10W
R510	1-216-813-11	METAL CHIP	220	5%	1/10W
R511	1-216-809-11	METAL CHIP	100	5%	1/10W
R512	1-216-809-11	METAL CHIP	100	5%	1/10W
R521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R523	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R527	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
R529	1-216-815-11	METAL CHIP	330	5%	1/10W
R530	1-216-813-11	METAL CHIP	220	5%	1/10W
R531	1-216-809-11	METAL CHIP	100	5%	1/10W
R541	1-216-833-11	METAL CHIP	10K	5%	1/10W
R543	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R547	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R548	1-216-845-11	METAL CHIP	100K	5%	1/10W
R549	1-216-815-11	METAL CHIP	330	5%	1/10W
R550	1-216-813-11	METAL CHIP	220	5%	1/10W
R551	1-216-809-11	METAL CHIP	100	5%	1/10W
R561	1-216-833-11	METAL CHIP	10K	5%	1/10W
R563	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R567	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R568	1-216-845-11	METAL CHIP	100K	5%	1/10W
R569	1-216-815-11	METAL CHIP	330	5%	1/10W
R570	1-216-813-11	METAL CHIP	220	5%	1/10W
R571	1-216-809-11	METAL CHIP	100	5%	1/10W
R601	1-216-797-11	METAL CHIP	10	5%	1/10W
R602	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R632	1-216-864-11	SHORT CHIP	0		
R634	1-216-864-11	SHORT CHIP	0		
R636	1-216-864-11	SHORT CHIP	0		
R638	1-216-864-11	SHORT CHIP	0		
R640	1-216-864-11	SHORT CHIP	0		
R642	1-216-864-11	SHORT CHIP	0		
R644	1-216-864-11	SHORT CHIP	0		
R646	1-216-864-11	SHORT CHIP	0		
R648	1-216-864-11	SHORT CHIP	0		
R654	1-216-864-11	SHORT CHIP	0		
R678	1-216-864-11	SHORT CHIP	0		
R680	1-216-864-11	SHORT CHIP	0		
R682	1-216-864-11	SHORT CHIP	0		
R684	1-216-864-11	SHORT CHIP	0		
R686	1-216-864-11	SHORT CHIP	0		
R688	1-216-864-11	SHORT CHIP	0		
R691	1-216-837-11	METAL CHIP	22K	5%	1/10W
R694	1-216-821-11	METAL CHIP	1K	5%	1/10W
R695	1-216-864-11	SHORT CHIP	0		
R696	1-216-821-11	METAL CHIP	1K	5%	1/10W
R697	1-216-845-11	METAL CHIP	100K	5%	1/10W
R698	1-216-841-11	METAL CHIP	47K	5%	1/10W
R700	1-216-864-11	SHORT CHIP	0		
R715	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R735	1-216-864-11	SHORT CHIP	0		
		< COMPOSITION CIRCUIT BLOCK >			
RB402	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB407	1-233-413-11	RES, CHIP NETWORK 2.2K (3216)			
RB422	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB427	1-233-413-11	RES, CHIP NETWORK 2.2K (3216)			
RB442	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB447	1-233-413-11	RES, CHIP NETWORK 2.2K (3216)			
RB462	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB467	1-233-413-11	RES, CHIP NETWORK 2.2K (3216)			
RB502	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB522	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB542	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB562	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB665	1-234-523-21	RES, CHIP NETWORK 0 (3216)			
**********					
	A-1088-545-A	BU BOARD, COMPLETE			
		*********			
		< CAPACITOR >			
C117	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C121	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C131	1-117-681-11	ELECT CHIP	100uF	20%	16V
C132	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C135	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C137	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C140	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C150	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C151	1-117-681-11	ELECT CHIP	100uF	20%	16V
C152	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C153	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C154	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C155	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C156	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C158	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C160	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C170	1-117-681-11	ELECT CHIP	100uF	20%	16V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN001	1-815-031-61	CONNECTOR, FFC/FPC (ZIF) 24P			
CN002	1-784-861-21	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN003	1-784-879-21	CONNECTOR, FFC (LIF (NON-ZIF)) 31P			
		< DIODE >			
D504	8-719-071-15	DIODE HZM6.8ZWA1TL			
		< COIL >			
L102	1-410-389-31	INDUCTOR	47uH		
L103	1-410-389-31	INDUCTOR	47uH		
		< TRANSISTOR >			
Q101	8-729-903-46	TRANSISTOR	2SB1132-P		
Q102	6-550-545-01	TRANSISTOR	2SC4617FTLQ		
Q103	8-729-903-46	TRANSISTOR	2SB1132-P		
Q104	6-550-545-01	TRANSISTOR	2SC4617FTLQ		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R120	1-216-801-11	METAL CHIP	22	5%	1/10W
R123	1-216-801-11	METAL CHIP	22	5%	1/10W
R136	1-216-814-11	METAL CHIP	270	5%	1/10W
R137	1-216-813-11	METAL CHIP	220	5%	1/10W
R140	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R151	1-216-801-11	METAL CHIP	22	5%	1/10W
R156	1-216-801-11	METAL CHIP	22	5%	1/10W
R160	1-216-814-11	METAL CHIP	270	5%	1/10W
R161	1-216-813-11	METAL CHIP	220	5%	1/10W
R163	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R195	1-216-845-11	METAL CHIP	100K	5%	1/10W
R196	1-216-845-11	METAL CHIP	100K	5%	1/10W
R197	1-216-845-11	METAL CHIP	100K	5%	1/10W
R198	1-216-845-11	METAL CHIP	100K	5%	1/10W
R199	1-216-809-11	METAL CHIP	100	5%	1/10W
**********					
	A-1099-561-A	DISPLAY BOARD, COMPLETE			
		**********			
	2-389-320-01	CUSHION			
*	4-996-686-04	HOLDER (FL)			
		< CAPACITOR >			
C800	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C801	1-124-584-00	ELECT	100uF	20%	10V
C810	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
C811	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C812	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C813	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C814	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C816	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C817	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C820	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C821	1-165-629-11	CERAMIC CHIP	1uF	10%	50V
C822	1-137-150-11	FILM	0.01uF	5%	100V
C824	1-128-131-11	ELECT	22uF	20%	50V
C826	1-124-584-00	ELECT	100uF	20%	10V
C827	1-124-584-00	ELECT	100uF	20%	10V
C830	1-125-972-11	ELECT	100uF	20%	16V
C833	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C834	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C835	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C836	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C837	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C871	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C872	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C873	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C874	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C875	1-125-972-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
CN840	1-779-556-21	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D820	8-719-069-85	DIODE PTZ-TE25-8.2B			
D821	8-719-041-97	DIODE MA113-(TX)			
D822	8-719-041-97	DIODE MA113-(TX)			
D823	8-719-041-97	DIODE MA113-(TX)			
D824	8-719-041-97	DIODE MA113-(TX)			
		< FLUORESCENT INDICATOR TUBE >			
FL801	1-519-786-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC800	6-600-349-31	IC NJL24H400A			
IC801	6-706-404-01	IC ML9208-04MBZ03B			
IC871	6-707-208-01	IC TK11100CSCB-G			
		< COIL >			
L817	1-414-400-41	INDUCTOR	22uH		
L820	1-412-537-31	INDUCTOR	100uH		
		< TRANSISTOR >			
Q809	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q810	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q811	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q820	8-729-056-46	TRANSISTOR	2SC5053T100Q		
Q821	8-729-056-46	TRANSISTOR	2SC5053T100Q		
Q871	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R800	1-216-809-11	METAL CHIP	100	5%	1/10W
R801	1-216-805-11	METAL CHIP	47	5%	1/10W
R805	1-216-845-11	METAL CHIP	100K	5%	1/10W
R807	1-216-845-11	METAL CHIP	100K	5%	1/10W
R809	1-216-845-11	METAL CHIP	100K	5%	1/10W
R811	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R812	1-216-809-11	METAL CHIP	100	5%	1/10W
R813	1-216-809-11	METAL CHIP	100	5%	1/10W
R814	1-216-809-11	METAL CHIP	100	5%	1/10W
R815	1-216-809-11	METAL CHIP	100	5%	1/10W
R822	1-216-837-11	METAL CHIP	22K	5%	1/10W
R825	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R826	1-216-809-11	METAL CHIP	100	5%	1/10W
R831	1-216-864-11	SHORT CHIP	0		
R832	1-216-864-11	SHORT CHIP	0		
R833	1-216-797-11	METAL CHIP	10	5%	1/10W
R839	1-216-821-11	METAL CHIP	1K	5%	1/10W
R840	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R841	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R842	1-216-821-11	METAL CHIP	1K	5%	1/10W
R843	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R844	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R846	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R860	1-216-839-11	METAL CHIP	33K	5%	1/10W
R865	1-216-841-11	METAL CHIP	47K	5%	1/10W
R871	1-216-864-11	SHORT CHIP	0		
R872	1-216-853-11	METAL CHIP	470K	5%	1/10W
R873	1-216-843-11	METAL CHIP	68K	5%	1/10W
R875	1-216-833-11	METAL CHIP	10K	5%	1/10W

DISPLAY **KEY SW** **LOADING** **MAIN**

Ref. No.	Part No.	Description			Remark
R881	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S840	1-762-875-21	SWITCH, KEYBOARD (■)			
S841	1-762-875-21	SWITCH, KEYBOARD (OPEN/CLOSE ⏏)			
S842	1-762-875-21	SWITCH, KEYBOARD (❚❚)			
S843	1-762-875-21	SWITCH, KEYBOARD (►)			
S847	1-771-963-11	SWITCH, ROTARY (I◄◄ ►►I)			
		< TRANSFORMER >			
T800	1-443-563-01	TRANSFORMER, DC-DC CONVERTER			
**********					
		KEY SW BOARD			
		**********			
		< CONNECTOR >			
* CN860	1-568-944-11	PIN, CONNECTOR 6P			
		< LED >			
D853	8-719-046-39	LED SEL5821A-TP15 (DIMMER)			
D854	8-719-046-39	LED SEL5821A-TP15 (VIDEO OFF)			
		< TRANSISTOR >			
Q853	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q854	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R851	1-216-809-11	METAL CHIP	100	5%	1/10W
R853	1-216-809-11	METAL CHIP	100	5%	1/10W
R854	1-216-809-11	METAL CHIP	100	5%	1/10W
R855	1-216-809-11	METAL CHIP	100	5%	1/10W
R861	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R863	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R864	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S861	1-762-875-21	SWITCH, KEYBOARD (SA-CD/CD)			
S862	1-762-875-21	SWITCH, KEYBOARD (MULTI/2CH)			
S863	1-762-875-21	SWITCH, KEYBOARD (VIDEO OFF)			
S864	1-762-875-21	SWITCH, KEYBOARD (DIMMER)			
**********					
	1-645-721-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
* CN151	1-568-943-11	PIN, CONNECTOR 5P			
		< SWITCH >			
S151	1-572-086-11	SWITCH, LEAF (LOADING OUT)			
S152	1-572-086-11	SWITCH, LEAF (LOADING IN)			
**********					

Ref. No.	Part No.	Description			Remark
		MAIN BOARD			
		**********			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C107	1-135-347-21	ELECT CHIP	82uF	20%	16V
C108	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C109	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C110	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C111	1-128-536-11	ELECT CHIP	100uF	20%	25V
C112	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C117	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C118	1-131-661-21	ELECT CHIP	100uF	20%	10V
C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C120	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C122	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C123	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C124	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C125	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C126	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C127	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C128	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C129	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-131-661-21	ELECT CHIP	100uF	20%	10V
C134	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C135	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C136	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C138	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C139	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C143	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C145	1-131-661-21	ELECT CHIP	100uF	20%	10V
C146	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C147	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C148	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-100-390-21	ELECT CHIP	180uF	20%	6.3V
C151	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C153	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C154	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C155	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C158	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C159	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C161	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V

Ref. No.	Part No.	Description			Remark
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C164	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C165	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C166	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C170	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C174	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C178	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C179	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C181	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V
C182	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C183	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C184	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C185	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C186	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C187	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C188	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C189	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C190	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C191	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C193	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C194	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C195	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C196	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C197	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C198	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C199	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C200	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C202	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C207	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C208	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C209	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C211	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C215	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C217	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C218	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C219	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C227	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C232	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-131-661-21	ELECT CHIP	100uF	20%	10V
C250	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C252	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C254	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C255	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C256	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C257	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C258	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C259	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C260	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C261	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C262	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C263	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C264	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C266	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C267	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C268	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C269	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C270	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C271	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C272	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C273	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C274	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C276	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C277	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C278	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C279	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C280	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C281	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C282	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C284	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C285	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C286	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C287	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C288	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C289	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C290	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C291	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C292	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C293	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C294	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C295	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C296	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C297	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C298	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C299	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C300	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C302	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C303	1-100-390-21	ELECT CHIP	180uF	20%	6.3V
C304	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C305	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C306	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C307	1-131-661-21	ELECT CHIP	100uF	20%	10V
C308	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C309	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C310	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C311	1-128-536-11	ELECT CHIP	100uF	20%	25V
C313	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C314	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C315	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C316	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C318	1-100-390-21	ELECT CHIP	180uF	20%	6.5V
C319	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C320	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remark
C321	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C322	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C323	1-126-412-11	ELECT CHIP	220uF	20%	4V
C324	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C326	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C327	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C328	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C329	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C330	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C331	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C332	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C333	1-126-412-11	ELECT CHIP	220uF	20%	4V
C334	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C335	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C336	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C337	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C338	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C339	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C340	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C341	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C342	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C343	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C344	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C345	1-131-661-21	ELECT CHIP	100uF	20%	10V
C346	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C347	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C348	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C349	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C350	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C352	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C353	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C354	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C355	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C356	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C357	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C358	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C359	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C360	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C361	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C362	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C363	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C364	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C400	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C401	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C402	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C403	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C405	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C406	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C407	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C408	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C409	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C410	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C412	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C413	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C415	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C416	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C417	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C419	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C421	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C423	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C424	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C425	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C427	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C428	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C429	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C430	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C431	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C433	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C434	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C436	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C437	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C438	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C439	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C441	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C442	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C443	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C444	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C486	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C492	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C493	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C494	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C495	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C496	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C497	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C498	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C499	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C500	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C503	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C506	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C512	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C513	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C514	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C521	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C522	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C523	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C524	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C526	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C527	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C528	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C529	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C530	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C533	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C535	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C536	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C537	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C539	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C540	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C541	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C542	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C543	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C544	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C545	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C546	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C547	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C548	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C549	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C551	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C552	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C553	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C554	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C555	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C556	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C558	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C559	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C560	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C561	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C562	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C563	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C564	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C565	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C566	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C567	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C568	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C569	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C570	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C571	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C572	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C573	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C574	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C575	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C576	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C577	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C578	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C579	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C580	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C581	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C582	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C583	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C584	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C585	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C586	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C588	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C589	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C590	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C593	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C594	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C595	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C596	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C597	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C598	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C599	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C600	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C601	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C604	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C608	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C609	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C610	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C611	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C612	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C613	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C614	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C615	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C616	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C617	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C618	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C619	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C620	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C621	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C622	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C623	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C624	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C625	1-165-872-21	ELECT CHIP	47uF	20%	6.3V
C626	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C627	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C628	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C629	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C630	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C631	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C632	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C633	1-131-661-21	ELECT CHIP	100uF	20%	10V
C634	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C635	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C636	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C637	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C638	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C639	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C640	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C641	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C642	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C643	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C644	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C645	1-131-661-21	ELECT CHIP	100uF	20%	10V
C646	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C647	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C648	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C649	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C650	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C651	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C652	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C653	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C654	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C655	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C656	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C657	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C658	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C659	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C660	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C663	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C664	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C665	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C666	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C667	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C668	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C669	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C670	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V
C671	1-127-956-21	FILM CHIP	0.1uF	5%	16V
C672	1-127-956-21	FILM CHIP	0.1uF	5%	16V
C673	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
C674	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C675	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C676	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C677	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C678	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C679	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C680	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C681	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C682	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C683	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C684	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C685	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C686	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C687	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C688	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C689	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C690	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C691	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C692	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C693	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C694	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C695	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C697	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C698	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C699	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C700	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C701	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C704	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C705	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C707	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C708	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C709	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C710	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C711	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C712	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C713	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C714	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C715	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C717	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C718	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C719	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C720	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C721	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C722	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C723	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C724	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C725	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C726	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C727	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C728	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C729	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C730	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C731	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C732	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C733	1-165-872-21	ELECT CHIP	47uF	20%	6.3V
C734	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C735	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C736	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C737	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C738	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C739	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C740	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C741	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C742	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C743	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C744	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C745	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C746	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C747	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C748	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C749	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C750	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C751	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C752	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C753	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C754	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C755	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C756	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C757	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C758	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C759	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C760	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C761	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C762	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C763	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C764	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C765	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C766	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C767	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C768	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C769	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C770	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C771	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C772	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C773	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C774	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C775	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C776	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C777	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C778	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C779	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C780	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C781	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C782	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C783	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C784	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C785	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C786	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C787	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C788	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C789	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C790	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C794	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C796	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C911	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C912	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C913	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C914	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C915	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C916	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C917	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C918	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C919	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C920	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C921	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C922	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C933	1-100-390-21	ELECT CHIP	180uF	20%	6.3V
C943	1-165-872-21	ELECT CHIP	47uF	20%	6.3V
C950	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C951	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C963	1-100-159-11	CERAMIC CHIP	22uF	10%	6.3V
C970	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
C971	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C979	1-162-914-11	CERAMIC CHIP	9PF	0.5PF	50V
C980	1-162-914-11	CERAMIC CHIP	9PF	0.5PF	50V
C982	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C983	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C984	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C985	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C987	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

< CONNECTOR >

				Remark
* CN101	1-573-768-21	PIN, CONNECTOR (1.5mm) (SMD) 5P		
CN102	1-784-387-11	CONNECTOR, FFC/FPC 31P		
* CN104	1-573-768-21	PIN, CONNECTOR (1.5mm) (SMD) 5P		
CN252	1-816-587-21	PIN, CONNECTOR (PC BOARD) 15P		
CN253	1-764-177-11	PIN, CONNECTOR (SMD) (1.5mm) 7P		
* CN400	1-766-376-11	PIN, CONNECTOR (1.5mm) (SMD) 9P		
CN402	1-778-691-11	CONNECTOR, FFC/FPC 19P		
* CN404	1-695-320-21	PIN, CONNECTOR (1.5mm) (SMD) 2P		
CN551	1-778-957-11	CONNECTOR, FFC/FPC 29P		
CN552	1-784-382-21	CONNECTOR, FFC/FPC 25P		
CN600	1-784-374-21	CONNECTOR, FFC/FPC 15P		
CN601	1-784-365-21	CONNECTOR, FFC/FPC 5P		

< DIODE >

				Remark
D400	6-500-219-01	DIODE 1SS404 (TPH3)		
D401	8-719-988-61	DIODE 1SS355TE-17		
D600	6-500-701-01	DIODE PGB1010603NR		
D601	6-500-701-01	DIODE PGB1010603NR		
D602	6-500-701-01	DIODE PGB1010603NR		
D603	6-500-701-01	DIODE PGB1010603NR		
D604	6-500-701-01	DIODE PGB1010603NR		
D605	6-500-701-01	DIODE PGB1010603NR		
D606	6-500-701-01	DIODE PGB1010603NR		
D607	6-500-701-01	DIODE PGB1010603NR		
D610	6-500-701-01	DIODE PGB1010603NR		
D933	6-500-219-01	DIODE 1SS404 (TPH3)		
D943	6-500-219-01	DIODE 1SS404 (TPH3)		

< FERRITE BEAD/JUMPER RESISTOR >

				Remark
FB262	1-216-864-11	SHORT CHIP	0	
FB307	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB311	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB312	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB313	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB317	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB323	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB333	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB343	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB345	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB346	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB353	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB363	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB373	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB403	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB409	1-216-864-11	SHORT CHIP	0	
FB410	1-216-864-11	SHORT CHIP	0	
FB411	1-216-864-11	SHORT CHIP	0	
FB413	1-216-864-11	SHORT CHIP	0	
FB415	1-216-864-11	SHORT CHIP	0	
FB423	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB433	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB443	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB503	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB511	1-500-283-11	INDUCTOR, FERRITE BEAD		
FB513	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB523	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB551	1-216-864-11	SHORT CHIP	0	
FB552	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB553	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB563	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB593	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB614	1-216-864-11	SHORT CHIP	0	
FB621	1-216-864-11	SHORT CHIP	0	
FB633	1-469-324-21	FERRITE, EMI (SMD) (2012)		
FB645	1-469-324-21	FERRITE, EMI (SMD) (2012)		

MAIN

Ref. No.	Part No.	Description	Remark
FB646	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB650	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB708	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB743	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB745	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB753	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB763	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB773	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB910	1-216-864-11	SHORT CHIP 0	
FB930	1-216-864-11	SHORT CHIP 0	
FB931	1-216-864-11	SHORT CHIP 0	
FB950	1-216-864-11	SHORT CHIP 0	
FB951	1-216-864-11	SHORT CHIP 0	
FB952	1-216-864-11	SHORT CHIP 0	
FB954	1-216-864-11	SHORT CHIP 0	
FB955	1-216-864-11	SHORT CHIP 0	
FB970	1-216-864-11	SHORT CHIP 0	
		< FILTER >	
FL253	1-234-177-21	FILTER, CHIP EMI	
FL303	1-234-177-21	FILTER, CHIP EMI	
FL307	1-234-177-21	FILTER, CHIP EMI	
FL311	1-233-893-21	FILTER, CHIP EMI	
FL313	1-234-177-21	FILTER, CHIP EMI	
FL318	1-234-177-21	FILTER, CHIP EMI	
FL323	1-234-177-21	FILTER, CHIP EMI	
FL333	1-234-177-21	FILTER, CHIP EMI	
FL343	1-234-177-21	FILTER, CHIP EMI	
FL345	1-234-177-21	FILTER, CHIP EMI	
FL518	1-234-177-21	FILTER, CHIP EMI	
FL533	1-234-177-21	FILTER, CHIP EMI	
		< IC/FET >	
* IC102	6-704-542-01	IC LMV324MTX/NOPB	
IC103	6-702-157-01	IC FAN8035L	
IC105	6-708-022-01	IC STE6317ATXXY	
IC107	8-759-460-76	IC BA07FP-E2	
IC118	6-707-119-01	IC TK11218CMCL-G	
IC133	8-759-583-47	IC uPC2933T-E2	
IC150	6-705-338-01	IC TK11250CMCL-G	
IC218	6-702-300-01	IC TK11118CSCL-G	
IC233	6-704-470-01	IC TK11233CMCL-G	
IC253	(Not supplied)	IC M29W320ET70N6E-NS3UA	
IC254	6-708-493-01	IC HY57V281620ETP-HDR	
IC255	6-805-368-01	IC M29W320ET70N6E	
IC256	6-708-023-01	IC STE5588CVB	
IC257	8-759-596-35	IC SN74LV594APWR	
IC258	8-759-548-97	IC SN74LV04APWR	
IC308	6-702-300-01	IC TK11118CSCL-G	
IC318	6-700-398-01	IC uPC2918T-E1	
IC401	8-759-196-96	IC TC7SH08FU-TE85R	
IC402	8-759-564-49	IC TC7W53FU (TE12R)	
IC403	8-759-196-96	IC TC7SH08FU-TE85R	
IC404	6-805-955-01	IC uPD70F3259YGF-41A-JBT-A	
IC405	8-759-350-42	IC PST9127NL	
IC406	6-708-544-01	IC PST9228NL	
IC441	8-759-196-96	IC TC7SH08FU-TE85R	
IC502	6-708-020-01	IC SAA7893HL	

Ref. No.	Part No.	Description	Remark
IC503	6-708-494-01	IC HY57V641620ETP-HDR	
IC504	8-759-549-20	IC SN74LV541APWR	
IC508	6-702-300-01	IC TK11118CSCL-G	
IC518	6-702-300-01	IC TK11118CSCL-G	
IC552	6-705-008-11	IC CXD9722ATQ	
IC553	8-759-196-96	IC TC7SH08FU-TE85R	
IC554	8-759-549-20	IC SN74LV541APWR	
IC555	6-705-992-11	IC HY57V161610ETP-7DR	
IC556	8-759-549-20	IC SN74LV541APWR	
IC558	8-759-196-96	IC TC7SH08FU-TE85R	
IC603	6-708-021-01	IC CXD9866R	
IC605	6-705-992-11	IC HY57V161610ETP-7DR	
IC606	6-704-646-01	IC ADV7310KST	
IC607	(Not supplied)	IC SII9030CTU-1.1	
IC608	6-550-014-01	FET SSM6N15FU (TE85R)	
IC612	6-703-046-01	IC SN74LVC1G08DCKR	
IC618	6-707-119-01	IC TK11218CMCL-G	
IC623	6-702-302-01	IC TK11133CSCL-G	
IC625	6-704-261-01	IC TK11225CMCL-G	
IC628	6-702-300-01	IC TK11118CSCL-G	
IC633	8-759-583-47	IC uPC2933T-E2	
IC643	6-702-302-01	IC TK11133CSCL-G	
IC650	6-705-337-01	IC TK11150CSCL-G	
IC718	6-702-300-01	IC TK11118CSCL-G	
IC723	6-702-302-01	IC TK11133CSCL-G	
IC725	6-702-301-01	IC TK11125CSCL-G	
IC733	6-702-302-01	IC TK11133CSCL-G	
IC911	6-701-877-01	IC SM8707EV-G-E2	
IC915	6-703-526-01	IC SN74LVC2G74DCUR	
IC921	8-759-549-20	IC SN74LV541APWR	
IC933	6-703-953-01	IC TK11134CSCL-G	
		< JACK >	
J600	1-818-086-41	HDMI CONNECTOR (HDMI OUT)	
		< COIL >	
L104	1-414-394-41	INDUCTOR 2.2uH	
L150	1-414-398-11	INDUCTOR 10uH	
L318	1-414-392-41	INDUCTOR 1uH	
L533	1-414-394-41	INDUCTOR 2.2uH	
L933	1-414-398-11	INDUCTOR 10uH	
L943	1-414-398-11	INDUCTOR 10uH	
L950	1-414-398-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q105	8-729-034-50	TRANSISTOR KTA1504	
Q400	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q401	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q402	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q574	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q575	8-729-027-59	TRANSISTOR DTC144EKA-T146	
		< RESISTOR >	
R101	1-216-864-11	SHORT CHIP 0	
R102	1-216-809-11	METAL CHIP 100 5%	1/10W
R103	1-216-809-11	METAL CHIP 100 5%	1/10W

Ref. No.	Part No.	Description			Remark
R104	1-216-809-11	METAL CHIP	100	5%	1/10W
R105	1-216-809-11	METAL CHIP	100	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-864-11	SHORT CHIP	0		
R109	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-219-724-11	METAL CHIP	1	1%	1/4W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R115	1-216-833-11	METAL CHIP	10K	5%	1/10W
R116	1-216-833-11	METAL CHIP	10K	5%	1/10W
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-833-11	METAL CHIP	10K	5%	1/10W
R119	1-216-833-11	METAL CHIP	10K	5%	1/10W
R120	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R125	1-218-840-11	METAL CHIP	510	0.5%	1/10W
R126	1-218-840-11	METAL CHIP	510	0.5%	1/10W
R127	1-218-840-11	METAL CHIP	510	0.5%	1/10W
R128	1-218-840-11	METAL CHIP	510	0.5%	1/10W
R129	1-218-840-11	METAL CHIP	510	0.5%	1/10W
R130	1-216-833-11	METAL CHIP	10K	5%	1/10W
R131	1-219-724-11	METAL CHIP	1	1%	1/4W
R132	1-219-724-11	METAL CHIP	1	1%	1/4W
R133	1-219-724-11	METAL CHIP	1	1%	1/4W
R135	1-218-878-11	METAL CHIP	20K	0.5%	1/10W
R138	1-218-882-11	METAL CHIP	30K	0.5%	1/10W
R139	1-216-821-11	METAL CHIP	1K	5%	1/10W
R140	1-216-864-11	SHORT CHIP	0		
R141	1-216-833-11	METAL CHIP	10K	5%	1/10W
R142	1-216-841-11	METAL CHIP	47K	5%	1/10W
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W
R144	1-216-841-11	METAL CHIP	47K	5%	1/10W
R145	1-216-833-11	METAL CHIP	10K	5%	1/10W
R146	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R147	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R148	1-216-833-11	METAL CHIP	10K	5%	1/10W
R149	1-216-821-11	METAL CHIP	1K	5%	1/10W
R150	1-216-833-11	METAL CHIP	10K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0		
R152	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R153	1-216-821-11	METAL CHIP	1K	5%	1/10W
R154	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R156	1-216-864-11	SHORT CHIP	0		
R157	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R158	1-218-880-11	METAL CHIP	24K	0.5%	1/10W
R159	1-216-805-11	METAL CHIP	47	5%	1/10W
R162	1-216-805-11	METAL CHIP	47	5%	1/10W
R164	1-216-833-11	METAL CHIP	10K	5%	1/10W
R165	1-216-805-11	METAL CHIP	47	5%	1/10W
R166	1-216-837-11	METAL CHIP	22K	5%	1/10W
R167	1-216-837-11	METAL CHIP	22K	5%	1/10W
R168	1-216-805-11	METAL CHIP	47	5%	1/10W
R169	1-216-805-11	METAL CHIP	47	5%	1/10W
R170	1-216-805-11	METAL CHIP	47	5%	1/10W
R171	1-216-837-11	METAL CHIP	22K	5%	1/10W
R172	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R173	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R174	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R175	1-216-805-11	METAL CHIP	47	5%	1/10W
R176	1-216-833-11	METAL CHIP	10K	5%	1/10W
R177	1-216-833-11	METAL CHIP	10K	5%	1/10W
R178	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R179	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R180	1-216-864-11	SHORT CHIP	0		
R181	1-216-864-11	SHORT CHIP	0		
R182	1-216-833-11	METAL CHIP	10K	5%	1/10W
R183	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R184	1-216-821-11	METAL CHIP	1K	5%	1/10W
R185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R186	1-216-809-11	METAL CHIP	100	5%	1/10W
R187	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
R188	1-218-843-11	METAL CHIP	680	0.5%	1/10W
R189	1-216-833-11	METAL CHIP	10K	5%	1/10W
R191	1-216-833-11	METAL CHIP	10K	5%	1/10W
R192	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R193	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R194	1-216-833-11	METAL CHIP	10K	5%	1/10W
R195	1-216-833-11	METAL CHIP	10K	5%	1/10W
R196	1-216-845-11	METAL CHIP	100K	5%	1/10W
R198	1-219-570-11	METAL CHIP	10M	5%	1/10W
R199	1-216-809-11	METAL CHIP	100	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R204	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R205	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R206	1-216-809-11	METAL CHIP	100	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-837-11	METAL CHIP	22K	5%	1/10W
R209	1-216-837-11	METAL CHIP	22K	5%	1/10W
R254	1-216-809-11	METAL CHIP	100	5%	1/10W
R256	1-216-864-11	SHORT CHIP	0		
R257	1-216-833-11	METAL CHIP	10K	5%	1/10W
R258	1-216-833-11	METAL CHIP	10K	5%	1/10W
R259	1-216-833-11	METAL CHIP	10K	5%	1/10W
R260	1-216-805-11	METAL CHIP	47	5%	1/10W
R262	1-216-809-11	METAL CHIP	100	5%	1/10W
R263	1-216-864-11	SHORT CHIP	0		
R264	1-216-864-11	SHORT CHIP	0		
R265	1-216-833-11	METAL CHIP	10K	5%	1/10W
R266	1-216-864-11	SHORT CHIP	0		
R267	1-216-833-11	METAL CHIP	10K	5%	1/10W
R268	1-216-864-11	SHORT CHIP	0		
R269	1-216-864-11	SHORT CHIP	0		
R270	1-216-833-11	METAL CHIP	10K	5%	1/10W
R271	1-216-809-11	METAL CHIP	100	5%	1/10W
R272	1-216-805-11	METAL CHIP	47	5%	1/10W
R273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R274	1-216-805-11	METAL CHIP	47	5%	1/10W
R275	1-216-833-11	METAL CHIP	10K	5%	1/10W
R276	1-216-864-11	SHORT CHIP	0		

MAIN

Ref. No.	Part No.	Description			Remark
R277	1-216-833-11	METAL CHIP	10K	5%	1/10W
R278	1-216-864-11	SHORT CHIP	0		
R279	1-216-805-11	METAL CHIP	47	5%	1/10W
R280	1-216-805-11	METAL CHIP	47	5%	1/10W
R281	1-216-833-11	METAL CHIP	10K	5%	1/10W
R282	1-216-833-11	METAL CHIP	10K	5%	1/10W
R284	1-216-805-11	METAL CHIP	47	5%	1/10W
R285	1-216-833-11	METAL CHIP	10K	5%	1/10W
R286	1-216-805-11	METAL CHIP	47	5%	1/10W
R287	1-216-864-11	SHORT CHIP	0		
R288	1-216-797-11	METAL CHIP	10	5%	1/10W
R289	1-216-864-11	SHORT CHIP	0		
R290	1-216-833-11	METAL CHIP	10K	5%	1/10W
R293	1-216-864-11	SHORT CHIP	0		
R294	1-216-864-11	SHORT CHIP	0		
R295	1-216-805-11	METAL CHIP	47	5%	1/10W
R296	1-216-864-11	SHORT CHIP	0		
R298	1-216-805-11	METAL CHIP	47	5%	1/10W
R299	1-216-833-11	METAL CHIP	10K	5%	1/10W
R300	1-216-805-11	METAL CHIP	47	5%	1/10W
R302	1-216-841-11	METAL CHIP	47K	5%	1/10W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-805-11	METAL CHIP	47	5%	1/10W
R305	1-216-805-11	METAL CHIP	47	5%	1/10W
R306	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R307	1-216-805-11	METAL CHIP	47	5%	1/10W
R309	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R310	1-216-805-11	METAL CHIP	47	5%	1/10W
R312	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R314	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R315	1-216-805-11	METAL CHIP	47	5%	1/10W
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R317	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R318	1-216-805-11	METAL CHIP	47	5%	1/10W
R319	1-216-805-11	METAL CHIP	47	5%	1/10W
R320	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R321	1-216-797-11	METAL CHIP	10	5%	1/10W
R322	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R323	1-216-797-11	METAL CHIP	10	5%	1/10W
R324	1-216-864-11	SHORT CHIP	0		
R325	1-216-805-11	METAL CHIP	47	5%	1/10W
R326	1-216-797-11	METAL CHIP	10	5%	1/10W
R327	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R328	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R329	1-216-797-11	METAL CHIP	10	5%	1/10W
R330	1-216-797-11	METAL CHIP	10	5%	1/10W
R331	1-216-805-11	METAL CHIP	47	5%	1/10W
R332	1-216-833-11	METAL CHIP	10K	5%	1/10W
R333	1-216-805-11	METAL CHIP	47	5%	1/10W
R334	1-216-805-11	METAL CHIP	47	5%	1/10W
R335	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R336	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R337	1-216-805-11	METAL CHIP	47	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R339	1-216-805-11	METAL CHIP	47	5%	1/10W
R340	1-216-805-11	METAL CHIP	47	5%	1/10W
R341	1-216-805-11	METAL CHIP	47	5%	1/10W

Ref. No.	Part No.	Description			Remark
R342	1-216-805-11	METAL CHIP	47	5%	1/10W
R343	1-216-833-11	METAL CHIP	10K	5%	1/10W
R344	1-216-833-11	METAL CHIP	10K	5%	1/10W
R345	1-216-805-11	METAL CHIP	47	5%	1/10W
R346	1-216-805-11	METAL CHIP	47	5%	1/10W
R347	1-216-805-11	METAL CHIP	47	5%	1/10W
R348	1-216-805-11	METAL CHIP	47	5%	1/10W
R349	1-216-833-11	METAL CHIP	10K	5%	1/10W
R350	1-216-833-11	METAL CHIP	10K	5%	1/10W
R351	1-216-864-11	SHORT CHIP	0		
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R354	1-218-857-11	METAL CHIP	2.7K	0.5%	1/10W
R356	1-216-864-11	SHORT CHIP	0		
R357	1-216-864-11	SHORT CHIP	0		
R358	1-216-805-11	METAL CHIP	47	5%	1/10W
R361	1-216-833-11	METAL CHIP	10K	5%	1/10W
R362	1-216-833-11	METAL CHIP	10K	5%	1/10W
R363	1-216-805-11	METAL CHIP	47	5%	1/10W
R364	1-216-833-11	METAL CHIP	10K	5%	1/10W
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W
R367	1-216-864-11	SHORT CHIP	0		
R371	1-216-809-11	METAL CHIP	100	5%	1/10W
R372	1-216-809-11	METAL CHIP	100	5%	1/10W
R373	1-216-809-11	METAL CHIP	100	5%	1/10W
R374	1-216-809-11	METAL CHIP	100	5%	1/10W
R376	1-216-864-11	SHORT CHIP	0		
R377	1-216-805-11	METAL CHIP	47	5%	1/10W
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R403	1-216-864-11	SHORT CHIP	0		
R404	1-216-845-11	METAL CHIP	100K	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-857-11	METAL CHIP	1M	5%	1/10W
R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R409	1-216-857-11	METAL CHIP	1M	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-864-11	SHORT CHIP	0		
R413	1-216-864-11	SHORT CHIP	0		
R414	1-216-864-11	SHORT CHIP	0		
R415	1-216-864-11	SHORT CHIP	0		
R416	1-216-864-11	SHORT CHIP	0		
R418	1-216-805-11	METAL CHIP	47	5%	1/10W
R419	1-216-801-11	METAL CHIP	22	5%	1/10W
R420	1-216-864-11	SHORT CHIP	0		
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R423	1-216-864-11	SHORT CHIP	0		
R424	1-216-805-11	METAL CHIP	47	5%	1/10W
R425	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R426	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R427	1-216-853-11	METAL CHIP	470K	5%	1/10W
R429	1-216-864-11	SHORT CHIP	0		
R430	1-216-841-11	METAL CHIP	47K	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-857-11	METAL CHIP	1M	5%	1/10W
R435	1-216-833-11	METAL CHIP	10K	5%	1/10W
R436	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R437	1-216-841-11	METAL CHIP	47K	5%	1/10W
R438	1-216-845-11	METAL CHIP	100K	5%	1/10W
R439	1-216-801-11	METAL CHIP	22	5%	1/10W
R440	1-216-833-11	METAL CHIP	10K	5%	1/10W
R441	1-216-833-11	METAL CHIP	10K	5%	1/10W
R442	1-216-864-11	SHORT CHIP	0		
R444	1-216-833-11	METAL CHIP	10K	5%	1/10W
R445	1-216-864-11	SHORT CHIP	0		
R446	1-216-833-11	METAL CHIP	10K	5%	1/10W
R447	1-216-864-11	SHORT CHIP	0		
R448	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R451	1-216-833-11	METAL CHIP	10K	5%	1/10W
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R454	1-216-833-11	METAL CHIP	10K	5%	1/10W
R455	1-216-833-11	METAL CHIP	10K	5%	1/10W
R456	1-216-833-11	METAL CHIP	10K	5%	1/10W
R457	1-216-833-11	METAL CHIP	10K	5%	1/10W
R458	1-216-833-11	METAL CHIP	10K	5%	1/10W
R459	1-216-833-11	METAL CHIP	10K	5%	1/10W
R460	1-216-833-11	METAL CHIP	10K	5%	1/10W
R461	1-216-845-11	METAL CHIP	100K	5%	1/10W
R462	1-216-845-11	METAL CHIP	100K	5%	1/10W
R463	1-216-864-11	SHORT CHIP	0		
R464	1-216-833-11	METAL CHIP	10K	5%	1/10W
R465	1-218-843-11	METAL CHIP	680	0.5%	1/10W
R466	1-216-813-11	METAL CHIP	220	5%	1/10W
R470	1-216-841-11	METAL CHIP	47K	5%	1/10W
R471	1-216-841-11	METAL CHIP	47K	5%	1/10W
R472	1-216-833-11	METAL CHIP	10K	5%	1/10W
R473	1-216-833-11	METAL CHIP	10K	5%	1/10W
R475	1-216-805-11	METAL CHIP	47	5%	1/10W
R476	1-216-864-11	SHORT CHIP	0		
R477	1-216-833-11	METAL CHIP	10K	5%	1/10W
R478	1-216-845-11	METAL CHIP	100K	5%	1/10W
R479	1-216-833-11	METAL CHIP	10K	5%	1/10W
R480	1-216-805-11	METAL CHIP	47	5%	1/10W
R481	1-216-864-11	SHORT CHIP	0		
R482	1-216-809-11	METAL CHIP	100	5%	1/10W
R483	1-216-809-11	METAL CHIP	100	5%	1/10W
R484	1-216-864-11	SHORT CHIP	0		
R485	1-216-864-11	SHORT CHIP	0		
R486	1-216-809-11	METAL CHIP	100	5%	1/10W
R489	1-216-833-11	METAL CHIP	10K	5%	1/10W
R494	1-216-864-11	SHORT CHIP	0		
R495	1-216-864-11	SHORT CHIP	0		
R496	1-216-864-11	SHORT CHIP	0		
R504	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R506	1-216-864-11	SHORT CHIP	0		
R507	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
R511	1-216-801-11	METAL CHIP	22	5%	1/10W
R513	1-216-809-11	METAL CHIP	100	5%	1/10W
R514	1-216-864-11	SHORT CHIP	0		
R516	1-216-864-11	SHORT CHIP	0		
R517	1-216-833-11	METAL CHIP	10K	5%	1/10W
R519	1-216-833-11	METAL CHIP	10K	5%	1/10W
R520	1-216-864-11	SHORT CHIP	0		
R521	1-216-805-11	METAL CHIP	47	5%	1/10W
R522	1-216-864-11	SHORT CHIP	0		
R523	1-216-864-11	SHORT CHIP	0		
R524	1-216-821-11	METAL CHIP	1K	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W
R526	1-216-805-11	METAL CHIP	47	5%	1/10W
R527	1-216-805-11	METAL CHIP	47	5%	1/10W
R528	1-216-805-11	METAL CHIP	47	5%	1/10W
R529	1-216-805-11	METAL CHIP	47	5%	1/10W
R530	1-216-864-11	SHORT CHIP	0		
R531	1-216-864-11	SHORT CHIP	0		
R532	1-216-864-11	SHORT CHIP	0		
R552	1-216-809-11	METAL CHIP	100	5%	1/10W
R554	1-216-864-11	SHORT CHIP	0		
R556	1-216-809-11	METAL CHIP	100	5%	1/10W
R558	1-216-805-11	METAL CHIP	47	5%	1/10W
R559	1-216-805-11	METAL CHIP	47	5%	1/10W
R560	1-216-805-11	METAL CHIP	47	5%	1/10W
R561	1-216-864-11	SHORT CHIP	0		
R563	1-216-864-11	SHORT CHIP	0		
R564	1-216-809-11	METAL CHIP	100	5%	1/10W
R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R566	1-216-864-11	SHORT CHIP	0		
R567	1-216-805-11	METAL CHIP	47	5%	1/10W
R568	1-216-805-11	METAL CHIP	47	5%	1/10W
R569	1-216-864-11	SHORT CHIP	0		
R572	1-216-805-11	METAL CHIP	47	5%	1/10W
R573	1-216-805-11	METAL CHIP	47	5%	1/10W
R574	1-216-841-11	METAL CHIP	47K	5%	1/10W
R575	1-216-841-11	METAL CHIP	47K	5%	1/10W
R576	1-216-841-11	METAL CHIP	47K	5%	1/10W
R579	1-216-864-11	SHORT CHIP	0		
R581	1-216-805-11	METAL CHIP	47	5%	1/10W
R582	1-216-805-11	METAL CHIP	47	5%	1/10W
R584	1-216-805-11	METAL CHIP	47	5%	1/10W
R585	1-216-805-11	METAL CHIP	47	5%	1/10W
R600	1-216-809-11	METAL CHIP	100	5%	1/10W
R602	1-216-864-11	SHORT CHIP	0		
R603	1-216-864-11	SHORT CHIP	0		
R604	1-216-864-11	SHORT CHIP	0		
R605	1-216-864-11	SHORT CHIP	0		
R606	1-216-864-11	SHORT CHIP	0		
R607	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R611	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R614	1-216-805-11	METAL CHIP	47	5%	1/10W
R616	1-216-864-11	SHORT CHIP	0		
R617	1-216-864-11	SHORT CHIP	0		
R619	1-216-864-11	SHORT CHIP	0		
R621	1-211-991-11	METAL CHIP	82	0.5%	1/10W
R622	1-211-991-11	METAL CHIP	82	0.5%	1/10W
R623	1-216-833-11	METAL CHIP	10K	5%	1/10W
R624	1-216-833-11	METAL CHIP	10K	5%	1/10W
R625	1-216-833-11	METAL CHIP	10K	5%	1/10W
R626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R633	1-216-864-11	SHORT CHIP	0		
R634	1-216-864-11	SHORT CHIP	0		
R635	1-216-805-11	METAL CHIP	47	5%	1/10W
R636	1-216-805-11	METAL CHIP	47	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R637	1-216-864-11	SHORT CHIP	0		
R639	1-216-805-11	METAL CHIP	47	5%	1/10W
R640	1-216-809-11	METAL CHIP	100	5%	1/10W
R641	1-216-809-11	METAL CHIP	100	5%	1/10W
R643	1-216-864-11	SHORT CHIP	0		
R644	1-216-864-11	SHORT CHIP	0		
R645	1-216-864-11	SHORT CHIP	0		
R653	1-218-843-11	METAL CHIP	680	0.5%	1/10W
R654	1-216-833-11	METAL CHIP	10K	5%	1/10W
R655	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R656	1-216-809-11	METAL CHIP	100	5%	1/10W
R657	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R659	1-216-864-11	SHORT CHIP	0		
R660	1-216-809-11	METAL CHIP	100	5%	1/10W
R661	1-218-857-11	METAL CHIP	2.7K	0.5%	1/10W
R662	1-218-857-11	METAL CHIP	2.7K	0.5%	1/10W
R663	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R664	1-216-864-11	SHORT CHIP	0		
R665	1-211-736-11	METAL CHIP	5.1	5%	1/10W
R667	1-216-833-11	METAL CHIP	10K	5%	1/10W
R669	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R670	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R671	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R672	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R674	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R675	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R678	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R679	1-216-864-11	SHORT CHIP	0		
R680	1-216-864-11	SHORT CHIP	0		
R681	1-216-864-11	SHORT CHIP	0		
R682	1-216-864-11	SHORT CHIP	0		
R683	1-216-864-11	SHORT CHIP	0		
R684	1-216-864-11	SHORT CHIP	0		
R685	1-216-841-11	METAL CHIP	47K	5%	1/10W
R686	1-216-864-11	SHORT CHIP	0		
R695	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R696	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R901	1-216-864-11	SHORT CHIP	0		
R902	1-216-864-11	SHORT CHIP	0		
R907	1-216-864-11	SHORT CHIP	0		
R910	1-216-805-11	METAL CHIP	47	5%	1/10W
R915	1-216-833-11	METAL CHIP	10K	5%	1/10W
R918	1-216-805-11	METAL CHIP	47	5%	1/10W
R919	1-216-864-11	SHORT CHIP	0		
R920	1-216-857-11	METAL CHIP	1M	5%	1/10W
R930	1-216-805-11	METAL CHIP	47	5%	1/10W
R931	1-211-983-11	METAL CHIP	39	0.5%	1/10W
R932	1-216-801-11	METAL CHIP	22	5%	1/10W
R937	1-219-724-11	METAL CHIP	1	1%	1/4W
R938	1-219-724-11	METAL CHIP	1	1%	1/4W
R950	1-216-805-11	METAL CHIP	47	5%	1/10W
R951	1-211-991-11	METAL CHIP	82	0.5%	1/10W
R952	1-211-991-11	METAL CHIP	82	0.5%	1/10W
R954	1-211-991-11	METAL CHIP	82	0.5%	1/10W
R955	1-211-989-11	METAL CHIP	68	0.5%	1/10W
R970	1-216-805-11	METAL CHIP	47	5%	1/10W

Ref. No.	Part No.	Description	Remark
		< COMPOSITION CIRCUIT BLOCK >	
RB250	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB251	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB252	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB254	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB255	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB257	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB258	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB259	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB260	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB261	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB262	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB263	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB264	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB265	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB266	1-242-962-21	RES, NETWORK 82X4 (1005)	
RB267	1-242-962-21	RES, NETWORK 82X4 (1005)	
RB268	1-242-962-21	RES, NETWORK 82X4 (1005)	
RB269	1-242-962-21	RES, NETWORK 82X4 (1005)	
RB270	1-234-400-21	CONDUCTOR, NETWORK (2010X4)	
RB271	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB272	1-234-400-21	CONDUCTOR, NETWORK (2010X4)	
RB401	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB402	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB403	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB404	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB405	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB501	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB502	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB503	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB521	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB522	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB523	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB524	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB531	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB532	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB550	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB551	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB552	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB553	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB554	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB555	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB556	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB557	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB558	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB559	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB561	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB562	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB563	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB564	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB565	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB566	1-234-400-21	CONDUCTOR, NETWORK (2010X4)	
RB600	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB601	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB602	1-234-702-11	RES, NETWORK 68 (1005X4)	
RB603	1-234-371-21	RES, NETWORK 47 (1005X4)	
RB604	1-234-702-11	RES, NETWORK 68 (1005X4)	

Ref. No.	Part No.	Description			Remark
RB605	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB606	1-234-702-11	RES, NETWORK 68 (1005X4)			
RB607	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB608	1-234-702-11	RES, NETWORK 68 (1005X4)			
RB609	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB610	1-234-702-11	RES, NETWORK 68 (1005X4)			
RB611	1-234-702-11	RES, NETWORK 68 (1005X4)			
RB612	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB613	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB614	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB615	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB616	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB617	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB618	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB619	1-239-662-11	RESISTOR, NETWORK 10			
RB620	1-239-662-11	RESISTOR, NETWORK 10			
RB621	1-239-662-11	RESISTOR, NETWORK 10			
RB622	1-239-662-11	RESISTOR, NETWORK 10			
RB623	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB624	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB625	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB626	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB627	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB628	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB629	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB630	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB631	1-234-371-21	RES, NETWORK 47 (1005X4)			
		< VARIABLE RESISTOR >			
RV600	1-223-583-11	RES, ADJ, CARBON	1K		
RV601	1-223-583-11	RES, ADJ, CARBON	1K		
		< VIBRATOR >			
X400	1-795-121-21	VIBRATOR, CERAMIC (5MHz)			
X903	1-781-867-21	VIBRATOR, CRYSTAL (27MHz)			
**********					
		POWER SW BOARD			
		**********			
		< CONNECTOR >			
CN880	1-506-481-11	CONNECTOR PIN 2P			
		< SWITCH >			
S881	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
**********					
	A-1099-623-A	VIDEO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C100	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C101	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C102	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C103	1-126-947-11	ELECT	47uF	20%	35V
C104	1-126-947-11	ELECT	47uF	20%	35V
C105	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C106	1-126-947-11	ELECT	47uF	20%	35V

Ref. No.	Part No.	Description			Remark
C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C108	1-126-947-11	ELECT	47uF	20%	35V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C171	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C180	1-104-665-11	ELECT	100uF	20%	25V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C182	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C184	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C190	1-104-665-11	ELECT	100uF	20%	25V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C194	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN131	1-784-365-21	CONNECTOR, FFC/FPC 5P			
CN151	1-784-374-21	CONNECTOR, FFC/FPC 15P			
CN171	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CN181	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D171	8-719-071-15	DIODE HZM6.8ZWA1TL			
		< EARTH TERMINAL >			
EP151	1-537-771-21	TERMINAL BOARD, GROUND			
		< FERRITE BEAD >			
FB171	1-469-784-11	BEAD, FERRITE (SMD)			
FB172	1-469-784-11	BEAD, FERRITE (SMD)			
		< FILTER >			
FL181	1-233-893-21	FILTER, CHIP EMI			
FL182	1-233-893-21	FILTER, CHIP EMI			
		< IC >			
IC100	6-701-820-01	IC LA73053-TLM-E			
IC181	6-705-338-01	IC TK11250CMCL-G			
IC191	6-706-743-01	IC TK72250CMCL-G			
		< JACK/TERMINAL >			
J101	1-794-731-11	JACK, PIN 1P (COMPONENT VIDEO OUT Y)			
J102	1-794-732-11	JACK, PIN 1P (COMPONENT VIDEO OUT PB/CB)			
J103	1-794-733-11	JACK, PIN 1P (COMPONENT VIDEO OUT PR/CR)			
J104	1-694-484-11	TERMINAL, S (2P.V) (S VIDEO OUT 1/2)			
J105	1-793-475-11	JACK, PIN 2P (VIDEO OUT 1/2)			
J171	1-764-188-31	JACK (SMALL TYPE) (DIA. 3.5) (CONTROL S IN)			
		< COIL >			
L101	1-414-400-41	INDUCTOR	22uH		
L102	1-414-400-41	INDUCTOR	22uH		
		< TRANSISTOR >			
Q103	8-729-027-46	TRANSISTOR	DTC114YKA-T146		
Q104	8-729-027-31	TRANSISTOR	DTA124EKA-T146		

VIDEO

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-807-11	METAL CHIP	68	5%	1/10W
R112	1-216-807-11	METAL CHIP	68	5%	1/10W
R113	1-216-807-11	METAL CHIP	68	5%	1/10W
R114	1-216-807-11	METAL CHIP	68	5%	1/10W
R115	1-216-807-11	METAL CHIP	68	5%	1/10W
R116	1-216-807-11	METAL CHIP	68	5%	1/10W
R117	1-216-807-11	METAL CHIP	68	5%	1/10W
R118	1-216-807-11	METAL CHIP	68	5%	1/10W
R119	1-216-807-11	METAL CHIP	68	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0		
R171	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R190	1-216-864-11	SHORT CHIP	0		
R400	1-216-864-11	SHORT CHIP	0		
R1016	1-216-833-11	METAL CHIP	10K	5%	1/10W
**********					
		MISCELLANEOUS			
		**********			
64	1-828-620-11	WIRE (FLAT TYPE) (19 CORE)			
⚠101	1-468-895-11	REGULATOR, SWITCHING			
102	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)			
104	1-828-646-11	WIRE (FLAT TYPE) (25 CORE)			
105	1-828-666-11	WIRE (FLAT TYPE) (29 CORE)			
106	1-828-549-11	WIRE (FLAT TYPE) (5 CORE)			
107	1-828-599-11	WIRE (FLAT TYPE) (15 CORE)			
⚠112	1-783-820-31	CORD, POWER			
⚠551	A-1109-165-A	OPTICAL TRAVERSE UNIT (DBU-3)			
558	1-824-106-51	CABLE, FLEXIBLE FLAT (0.5mm PITCH)			
M151	A-4604-363-A	MOTOR (L) ASSY (LOADING)			
**********					
		ACCESSORIES			
		**********			
	1-479-274-11	COMMANDER, STANDARD (RM-ASP002)			
	1-751-271-31	CORD, CONNECTION (AV) (AUDIO/VIDEO CORD)			
	2-633-251-11	MANUAL, INSTRUCTION (ENGLISH)			
	2-633-251-21	MANUAL, INSTRUCTION (FRENCH) (Canadian)			
	3-081-834-21	BATTERY COVER (SMK7G) (for RM-ASP002)			

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.08	New
1.1	2005.09	Addition of Black type (US model only)